VIBRATORY HUB LOAD DATA REDUCTION AND ANALYSIS FROM THE REVERSE VELOCITY ROTOR WIND TUNNEL TEST

R. B. TAYLOR

JANUARY 1976

PREPARED UNDER CONTRACT NO. NAS 2-8630

FOR

A FROMALITICS AND SPACE ADMINISTRATIONAL AFROMALITICS AND SPACE ADMINISTRATIONAL AFROMAL AFROMALITICS AND SPACE ADMINISTRATIONAL AFROMAL AFROMAL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

AMES RESEARCH CENTER

BY

BOEING VERTOL COMPANY

P. O. BOX 16858
PHILADELPHIA, PENNSYLVANIA 19142

D 210-11004-1

N76-16038

PHASE

Vertol

VPLOCITY (Boeing V

BOEING VERTOL COMPANY

A DIVISION OF THE BOEING COMPANY

P.O. BOX 16858 PHILADELPHIA, PENNSYLVANIA 19142

	CODE IDE	NT. NO. 772	72	
NUMBER	D2	10-11004-1		
TITLE VIBRATORY	HUB LOA	D DATA RED	UCTION .	AND ANALYSIS
FROM THE	REVERSE	VELOCITY R	ROTOR WI	ND TUNNEL
TEST - PI	ASE IIB			
ORIGINAL RELEASE SUBSEQUENT REVISI IMPOSED ON THE DI IN THIS DOCUMENT,	ONS, SEE TH STRIBUTION	IE REVISION S AND USE OF	HEET. FO INFORMATI	R LIMITATIONS
MODEL		_ CONTRACT .		<u> 1000 0030 </u>
ISSUE NO	ISSUED	TO:		
PREPARED BY R APPROVED BY APPROVED BY F. APPROVED BY	Taylor,	Culory	DATE _	Nov 6, 19
APPROVED BY			DATE	
APPROVED BY			DATE _	

THE BOEING COMPANY REV LTR

LIMITATIONS

This document is controlled by <u>Crganization 7040</u>

All revisions to this document shall be approved by the above noted organization prior to release.

FORM 46281 (3/67)

NUMBER

THE								
	REVISIONS							
LTR	DESCRIPTION	DATE	APPROVAL					
								
ļ								
İ								
1								

THE ESE		<u> </u>			SHEE	T RECORD					
		ADD	ED :	SHEETS				ADI	DED	SHEETS	
SHEET NUMBER	REV LTR	SHEET	REV LTR	SHEET	REV LTR	SHEET	REV LTR	SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR
i ii iii iv v vi vii viii ix x 1 2 3 4' 5 6 7 8 9 10 11 12 13 14 15 16 17 13 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34						35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 66 67 68 70 71 72 73 74 75 76 77 78					

THE BOEING COMPANY

NUMBER REV LTR

					<u> </u>	- 250022		KEVLIN			
				ACTIVE	SHE	T RECORD	- 1				
		ADD	ED S	SHEETS			-	ADI	DED	SHEETS	
SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR	SHEET	REV LTR	SHEET NUMBER	REV LTR	SHEET NUMBER	REV LTR
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123						124 125 126 127 128 129 130 131 132 133 134 135 136 157 138 139 140 141 142 143 144 145 147					

FORM 46283 (7/67)

TABLE OF CONTENTS

																			PAGE
ABSTE	RACT .					•	•	•	•	•		•				•	•		vi
SUMMA	ARY .					•			•			•		•	•	•			viii
1.0	Intro	oduo	tic	n			•	•			•					•			1
2.0	Desci	ript	cior	1 0	f N	1od	el	and	Te	st	Sta	nd	•		•			•	5
	2.1		nera				•	•				•		•	•	•		•	5
	2.2	Rot	tor	в1	ade	es		•		•	•				•	•	•		5
	2.3	Rot	tor	Hu	.b	•			•	•	•	•		•	•		•		7
	2.4	Co	ntro	o 1	Sy:	ste	m		•	•	•		•			•	•		8
	2.5		ive		-		•	•	•			•	•			•			9
	2.6	In	str	ume	nt	ati	on.				•	•	•	•			•		10
3.0	Test								•	•				•	•	•			23
3.0	3.1		b B		inc	e D	ata	a .			•			•	•		•		24
	3.2		ner						nate	e Da	ıta			•	•		•	•	31
	3.3										a a	ınd	Ger	nera	aliz	zed			
	J.J	Co	ord	ina	ite	d I	at	a .	•	•	•	•	•	•	•	•	•	•	33
4.0	Conc	lus	ion	s	•	•	•	•	•	•	•	•	•	•	•	•	•	•	59
5.0	Refe	ren	ces		•	•	•	•	•	•	•	•	•	•	•	•	•	•	62
APPE	NDIX						ab	Bal	ance	e Da	ata	Rec	luct	tion	n .				63
			Equ				•	•	٠ ـدـ	m - 1	1	· ·	• • m/		D _O	21111	· Fe		75
	ENDIX																CS	•	
APPE	ENDIX	С	NAS Sum	ma:	Ame ry	s !	Fix •	ed	Sys.	tem •	Hui		oau:	•		•	•	•	134
APPE	ENDIX	D	Der for	iv	ati bta	on in	of ing	Ge Hu	ner b L	ali oad	zed s .	Coc	ord:	ina	te 1	Meti	hod •	•	137
APPI	ENDIX	E	Tak Loa	ul ds	ati Da	on	of •	Ge •	ner •	ali	zed •	Co.	ord •	ina •	te	Hub •			141
APPI	ENDIX	F	Mod	lel	B)	lad	e a	nd	Mod	e1/	Tes	t S	tan	d D	yna •	mic •	•		143

LIST OF FIGURES

		PAGE
1	RVR Wind Tunnel Model Comparison of 4 Per Rev Fixed System Hub Loads for Zero 2 Per Rev Cyclic Obtained from Rotating Balance and from Generalized Coordinates	x
1.1	Model 347 Pendulum Absorber - 4 Ω Blade Root Vertical Shear Results	3
1.2	Model 347 Effect of Pendulum Absorber Tuning on 4Ω Blade Root Vertical Shears and Measured Cockpit Vertical Acceleration at 150 Kts	4
2.1	Reverse Velocity Rotor Test Stand Installation in NASA Ames 12 ft. Pressure Tunnel (Looking Upstream)	13
2.2	Reverse Velocity Rotor Test Stand Arrangement of Model and Pedestal in the Tunnel	. 14
2.3	Reverse Velocity Rotor Test Stand Geometric Layout	. 15
2.4	Model Rotor Airfoil Sections	. 17
2.5	Typical Cross Section of Model Rotor Blade	. 18
2.6	RVR Blade Strain Gage Location Internal Instrumentation - Fairchild	. 19
2.7	Natural Frequency Spectrum 1/7 Scale Model RVR Rotor Blade	. 20
2.8	RVR Blade Strain Gage Location External Instrumentation - NASA	. 21
2.9	Reverse Velocity Rotor Model Control System	. 22
3.1	RVR Wind Tunnel Model 4 Per Rev Fixed System Thrust for 5 Deg Aft Shaft Tilt and Zero 2 Per Rev Cyclic (Rotating Hub Balance Data)	. 41
3.2	RVR Wind Tunnel Model 4 Per Rev Fixed System Roll Moment for 5 Deg Aft Shaft Tilt and Zero 2 Per Rev Cyclic (Rotating Hub Balance Data)	. 42
3.3	RVR Wind Tunnel Model 4 Per Rev Fixed System Pitch Moment for 5 Deg Aft Shaft Tilt and Zero 2 Per Rev Cyclic (Rotating Hub Balance Data)	\ !

LIST OF FIGURES

	<u>PA</u>	<u>GE</u>
3.4	RVR Wind Tunnel Model 4 Per Rev Fixed System Longitudinal Force for 5 Deg Aft Shaft Tilt and Zero 2 Per Rev Cyclic (Rotating Hub Balance Data)	44
3.5	RVR Wind Tunnel Model 4 Per Rev Fixed System Lateral Force for 5 Deg Aft Shaft Tilt and Zero 2 Per Rev Cyclic (Rotating Hub Balance Data)	45
3.6	RVR Wind Tunnel Model 4 Per Rev Fixed System Torque for 5 Deg Aft Shaft Tilt and Zero 2 Per Rev Cyclic (Rotating Hub Balance Data)	46
3.7	RVR Wind Tunnel Model Measured 4 Per Rev Fixed System Hub Loads for Zero 2 Per Rev Cyclic and 1g Lift (Rotating Hub Balance Data)	47
3.8	RVR Wind Tunnel Model Measured 4 Per Rev Fixed System Hub Loads for Zero 2 Per Rev Cyclic and lg Lift (Rotating Hub Balance Data)	48
3.9	Effect of g's Thrust on 4/Rev Fixed System Hub Loads (Rotating Hub Balance Data)	49
3.10	Effect of g's Thrust on 4/Rev Fixed System Hub Loads (Rotating Hub Balance Data)	50
3.11	RVR Wind Tunnel Model Effect of 2 Per Rev Cyclic on Measured 4 Per Rev Fixed System Hub Loads (Rotating Hub Balance Data)	51
3.12	RVR Wind Tunnel Model Effect of 2 Per Rev Cyclic on Measured 4 Per Rev Fixed System Hub Loads (Rotating Hub Balance Data)	52
3.13	RVR Wind Tunnel Model 4/Rev Fixed System Hub Thrust (Obtained from Generalized Coordinates	53
3.14	RVR Wind Tunnel Model 4/Rev Fixed System Hub Overturning Moment (Obtained from Generalized Coordinates)	54

LIST OF FIGURES

			PAGE
3.15	RVR Wind Tunnel Model 4/Rev Fixed System Hub Overturning Moment Variation with Rotor Speed (Obtained from Generalized Coordinates)	•	55
3.16	RVR Wind Tunnel Model Effect of 2 Per Rev Cyclic on 4 Per Rev Fixed System Hub Thrust (Obtained from Generalized Coordinates)	•	56
3.17	RVR Wind Tunnel Model Effect of 2 Per Rev Cyclic on 4 Per Rev Fixed System Hub Overturning Moment (Obtained from Generalized Coordinates)	•	57
3.18	RVR Wind Tunnel Model Comparison of 4 Per Rev Fixed System Hub Loads for Zero 2 Per Rev Cyclic and 1g Lift Obtained from Rotating Balance and from Generalized Coordinates	•	58
3.19	RVR Wind Tunnel Model Comparison of Effect of 2 Per Rev Cyclic on 4 Per Rev Fixed System Hub Loads as Obtained from Rotating Balance and from Generalized Coordinates	•	58A
F.1	RVR Wind Tunnel Model Blade Predicted Flapwise Frequency Spectrum		144
F.2	RVR Phase IIB Wind Tunnel Model Predicted Model Characteristics for First Flexible Flap Mode as Affected by Air Density	•	145
F.3	RVR Phase IIB Wind Tunnel Model Effect of Rotor Speed on Longitudinal Model Test Stand Shaking .	•	146
F.4	RVR Phase IIB Wind Tunnel Test Comparison of Predicted and Measured Model/Stand Natural Frequencey Spectrum	•	147

LIST OF TABLES

		PAGE
2-1	Rotor Characteristics	16
3-1	Test Conditions for Which Vibratory Hub Loads Data Are Available	40
A-1	Forces and Moments in Fixed Frame for a 4-Bladed Rotor System - Equations and Output Format for Inplane Components	73
A-2	Forces and Moments in Fixed Frame for a 4-Bladed Rotor System - Equations and Output Format for Vertical Components	74
C-1	NASA Ames Fixed System 4/Rev Hub Loads Data - Thrust, Rolling Moment, Pitching Moment	135
C-2	NASA Ames Fixed System 4/Rev Hub Loads Data - Longitudinal Force, Lateral Force, Torque	136
E-1	Generalized Coordinate 4/Rev Hub Loads Data .	142

ABSTRACT

This document presents the results of the vibratory hub loads data analysis from the Reverse Velocity Rotor Wind Tunnel Test - Phase IIB. Vibratory loads were obtained from the rotating hub balance and also by synthesis of generalized coordinates from the blade flap bending moments. Load trends were defined as a function of speed, rotor thrust and 2 per rev cyclic from each of the data methods. These trends were compared to determine the degree of agreement between each method and provide substantiation for the generalized coordinate approach.

FOREWARD

This report was prepared by the Boeing Vertol Company for the National Aeronautics and Space Administration, Ames Research Center under NASA Contract NAS2-8630. The report contains the vibratory hub load data reduction and analysis from the Reverse Velocity Rotor Wind Tunnel Test - Phase IIB.

Mr. Ron Smith (NASA Ames) was the technical monitor for this work.

The Boeing Vertol Program Manager was F. J. McHugh, and the Project Engineer was R. B. Taylor.

SUMM'ARY

Analysis of the vibratory hub loads obtained from the Reverse

Velocity Rotor Wind Tunnel Test - Phase IIB was performed using
hub load data obtained from a rotating balance and hub loads obtained by synthesis of general coordinates from the blade bending
moments. The general results exhibited by the data indicate that
vibratory thrust and overturning moments are the two loads of
major concern. A second item of general relevance is the sensitivity of the results to model/test stand resonance conditions at
different rotor speeds across the advance ratio range.

Figure 1 presents the two major loads, vibratory thrust and overturning moment variation with advance ratio, determined with the hub balance and generalized coordinate methods. Two peaks are evident in the vibratory thrust at advance ratios of 0.7 and 1.4. These high load conditions are due to model/test stand resonant frequencies which will be avoided on a full scale rotor system. The hub balance data indicates two high load conditions but the generalized coordinate data indicates one high load condition at μ =0.8 (the 3/rev - longitudinal test stand frequency) and a suppressed load peak at μ =1.4. The trend of the vibratory thrust defined by the data at nonresonant test conditions and represented by the solid line in Figure 1 indicates an increasing trend with advance ratio. Agreement of the data obtained from the hub balance and the generalized coordinate methods is good for the conditions away from a resonance condition.

At the bottom of Figure 1 is the vibratory hub overturning moment variation with advance ratio. The large load peak at an advance ratio of 1.3 is a result of the 3/rev first flexible flapwise mode. The generalized coordinate data indicates a load level significantly higher than the hub balance data. These trends resemble load growth for a system with various amounts of damping: 4% for the generalized coordinate data and 30 percent for the hub balance data. Agreement in the data defined by both methods at advance ratios below 0.8 and abc/e 1.6 is quite good. The implication of this is that the vibratory hub moment trend with advance ratio is constant with advance ratio as represented by the solid line.

It is concluded that the generalized coordinate method would be the most reliable and representative of the full scale (no model/stand resonance conditions). Also the complexity of load measurement is less with the generalized coordinate method; 6 data channels required as compared to 10 channels required for the hub balance method.

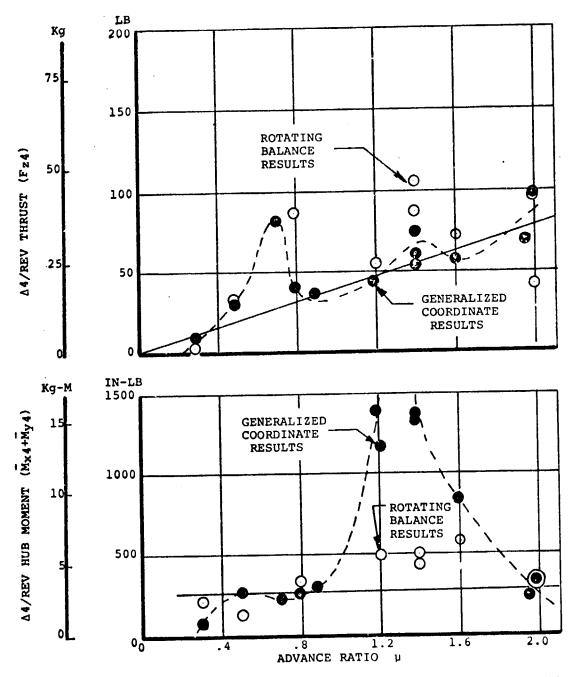


FIGURE 1 RVR WIND TUNNEL MODEL COMPARISON OF 4 PER REV FIXED SYSTEM HUB LOADS FOR ZERO 2 PER REV CYCLIC OBTAINED FROM ROTATING BALANCE AND FROM GENERALIZED COORDINATES

1.0 INTRODUCTION

For an articulated rotor, the blade vertical shears at the flapping hinge are the sole contributor to hub vibratory components of thrust, rolling moment and pitching moment. The other three hub load components (torque, longitudinal force and lateral force) are due to blade chordwise and radial shears at the lag hinge. A semiempirical analysis has been developed to determine these shears and requires measured blade flap bending and chord bending moments in addition to a dynamic description of the rotor blade.

This analysis has been used at Boeing to determine 4/rev vibratory hub vertical force on the Model 347, a tandem rotor helicopter with 4 bladed rotors. The specific objective was to determine by flight testing, the effect of blade mounted 4/rev pendulum absorbers on the blade root 4/rev vertical shears. Figures 1.1 and 1.2 show the results of that testing effort. The effect of the absorbers when they were optimumly tuned is shown in Figure 1.1 for both forward and aft rotors. These results, all of which were developed by the analysis, show a 7 to 1 reduction in blade 4/rev root vertical shears on the forward rotor at 150 knots. The upper plot in Figure 1.2 shows the effect of pendulum absorber tuning on 4/rev blade root vertical shears on the forward rotor at 150 knots. Note that maximum tuning is shown by the analysis to be at 3.95 per rev pendulum tuning. bottom plot in Figure 1.2 shows the effect of pendulum absorber tuning on measured vertical cockpit accelerations. The effect of

tuning is very similar to that for the vertical shears for the plot above with minimum acceleration occurring at 3.95 per rev tuning. If the vertical shears and accelerations were normalized by their respective values for no pendulum absorbers (the baseline value), the nondimensional results would be nearly the same for vertical shear and cockpit acceleration. A more detailed discussion of this application of generalized coordinates is contained in Reference 1.

The degree of correlation obtained in the previous application indicated that the analysis had merit and would be a valuable asset to future rotor research programs. It needed additional substantiation for the loads on an isolated rotor test program that not only had adequate blade instrumentation to define the shears at the flap and lag hinges but also direct measurement of the vibratory hub loads. The capability to measure hub loads was being integrated into the Reverse Velocity Rotor Model. A recommendation was made to provide additional blade instrumentation for the purpose of providing a backup source of obtaining vibratory hub loads data as well as providing an additional degree of substantiation. NASA provided the additional instrumentation required to obtain the data that is presented in the following sections.

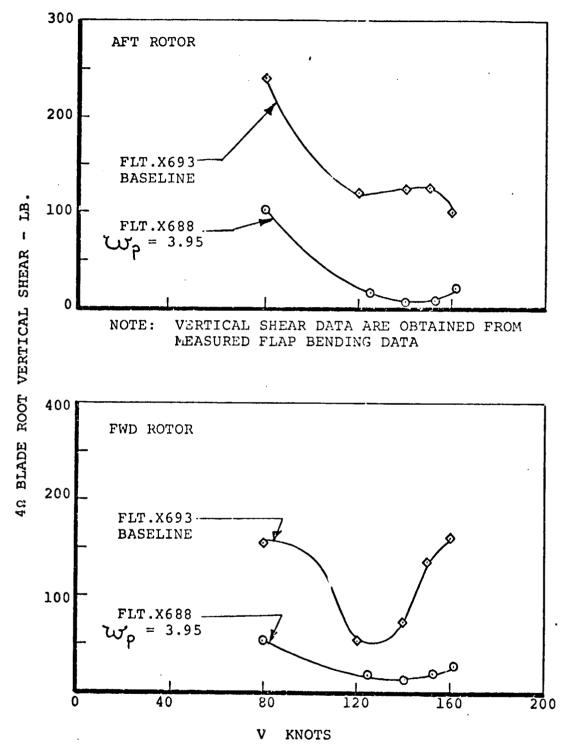
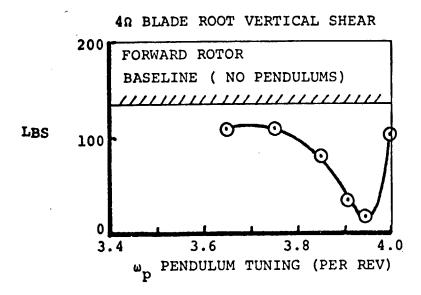


Figure 1.1 MODEL 347 PENDULUM ABSORBER - 4Ω BLADE ROOT VERTICAL SHEAR RESULTS



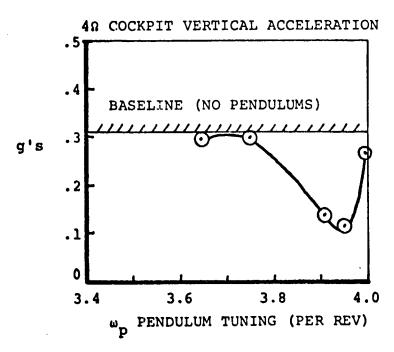


Figure 1.2 - MODEL 347 EFFECT OF PENDULUM ABSORBER TUNING ON 4Ω BLADE ROOT VERTICAL SHEARS AND MEASURED COCKPIT VERTICAL ACCELERATION AT 150 KTS

2.0 DESCRIPTION OF MODEL AND TEST STAND

2.1 General

The Reverse Velocity Rotor Model was tested in NASA Ames 12 foot pressure tunnel. Figure 2.1 shows the installation in the tunnel of this 8 foot diameter, four bladed rotor mounted on the test stand. The rotor, control system and hydraulic motor are all mounted on a base plate carried on the NASA Ames 2.5 in. diameter High Endurance Main balance. This total model loads is mounted in a "Y" shaped support frame that can be pivoted on a floor mounted pedestal, as shown in Figure 2.2. The rotor shaft angle can be varied from 5° forward to 12.5° aft using the angle of attack mechanism to drive the "Y" support frame. The whole unit is enclosed in an upper fairing around the hub and a lower fairing around the control system, "Y" support frame and pedestal.

The hub fairing, hub and blades are mounted on a balance carried on the top of the rotor shaft for measuring six components of vibratory rotor loads. Figure 2.3 shows the geometric layout of the hub, hub balance as well as the base plate and main balance.

2.2 Rotor Blades

The rotor characteristics presented in Table 2-1 define the blade geometric and structural properties. The rotor blades are of constant chord with a root cutout at 23 percent radius. The Fairchild developed reversible airfoil sections are a 1.5 percent cambered, 6% thick section at the tip and a 3.5 percent cambered, 18% thick section at the root, with linear caper root to tip. The airfoil sections at root, tip and midspan are shown in Figure 2.4

and ordinates for these sections are given in Table 1-II of Reference 2. A cross-section of one of the blades is shown in Figure 2.5. The aluminum upper and lower skins have chordwise and spanwise thickness variations formed by chemical milling. A C-spar, which is bonded to the skins over the full span at the chordwise change of skin thickness, is machiend integrally with the root end attachment. The skins are bonded to an aluminum wedge at the trailing edge and a bronze wedge at the leading edge which serves as a balance weight. An aluminum honeycomb core is machined to the internal contour and serves as a tie between the upper and lower skins as well as a forming core for the bonding operation. Strain gages were bonded internally to the spar on two of the blades at three radial stations (.37R, .51R and .70R) to measure flap bending stresses as shown in Figure 2.6.

The rotor blade was designed with maximum torsional stiffness at minimum weight as a prime concern. The bonded metal structure was found to be the minimum cost and minimum risk approach for achieving this. The resulting blade Lock number is 2.1 at sea level which is much less than that of conventional helicopter rotor blades.

The rotor shear center and pitch axis were placed at 27.5 percent chord and the section c.g. near 30 percent chord. This configuration was found to be near optimum from studies of flap-torsion dynamic stability at high advance ratio. Plots of the rotor blade physical properties including the measured and theoretical spanwise variation of bending and torsional stiffness are given in

Reference 3. The natural frequency spectrum of the rotor blade modes in a vacuum is shown in Figure 2.7.

2.3 Rotor Hub

The rotor hub is a 4-bladed fully articulated type with provisions made for various values of delta-3 feedback; however, due to lack of time only a delta-3 angle of 26.5 degrees was used in this series of tests. The coincident flap and lag hinges are positioned at 6.5 percent of the blade radius.

Mechanical damping of the blades is provided about the lag hinge by rotary viscous dampers mounted above the rotor hub. The dampers provide approximately 130% critical damping about the lag hinge to minimize the potential of a ground resonance-type instability of the rotor mounted on the flexible balance.

In order to measure vibratory loads a NASA 6-component strain gage balance was installed in the hub so that all loads from the rotor hub to the shaft are carried through this balance.

Together with the strain gaging of the pitch links and the measurement of accelerations in three axes at the hub, this enables vertical and in plane vibratory forces to be determined.

The hub is fully faired by a spun metal fairing with cut-outs to permit blade flapping, and shields mounted on the blade cuffs to close the cut-outs.

2.4 Control System

The control system shown in Figure 2.9 has a conventional three - actuator - controlled swashplate to provide collective pitch and one - per - rev cyclic pitch.

The actuators are set at 90°, 180° and 270° azimuthal positions and are remotely operated with controls for collective, longitudinal cyclic and lateral cyclic. Instead of operating the incidence rods directly, the swashplate outer ring carries four levers which allow for the addition of a two-per-rev input to the swashplate motion.

The two-per-rev motion is generated by a lower swashplate and a shaft driven at twice rotor rpm. In previous tests the two-per-rev motion was transferred to the upper swashplate level by an external sleeve. To minimize inertia forces the two-per-rev motion is transmitted upward by a column that is now positioned inside the main rotor shaft. A crosshead, attached to the top of the column, projects through slots in the wall of the shaft and is connected to the mixing levers on the upper swashplate.

To achieve a satisfactory life, all two-per-rev bearings except the swashplate bearing are lubricated by a pressure fed oil supply from an external system. The two-per-rev generating mechanism is enclosed in a cylindrical housing with a sump inside the drive pulley to collect the oil from the bearings.

The self-contained lubrication system consists of an approximately 5 gallon tank equipped with a 5 horsepower pump with pressure relief, and a pair of 1 horsepower scavenge pumps working in parallel. The oil in the tank is cooled by a fresh water supply.

2.5 Drive System

The rotor is driven through a toothed belt by a hydraulic motor mounted on the baseplate. The belt passes around the upper hydraulic motor drive pulley (21 teeth) and the rotor shaft pulley (60 teeth). A second identical drive pulley on the hydraulic motor is connected by a second toothed belt to the two-per-rev generator drive pulley (30 teeth). The ratio of hydraulic motor rpm to rotor shaft rpm is 2.857:1 and the ratio of the two-per-rev generator rpm to rotor shaft rpm is 2.0:1. When it is not required to operate the two-per-rev mechanism, the lower belt can be removed and the two-per-rev sleeve locked in its central position. The phasing of the two-per-rev input to the main rotor shaft is accomplished by the relationship of the rotor and two-per-rev pulleys; phasing can readily be changed after slackening off one or both of the drive belts.

The hydraulic motor is driven by a self-contained hydraulic power pack located outside the wind tunnel shell, consisting of an electric motor, pumps, reservoir, filters, control and relief valves, etc. The power pack can be remotely controlled from the wind tunnel control room. Provision is made for controlled braking of the rotor to prevent overspeeding in the windmilling case, and also for auto-matic control of rotor speed.

Since the hydraulic motor is mounted on the metric part of the system, connection between it and the pedestal is through pressure-balanced swivel joints. Tare effects due to the load path across these swivels and pipes were tested for and found to be zero. The swivels also allow for the change of alignment of the hydraulic piping when the rotor shaft angle is altered.

2.6 Instrumentation

The rotor blades were fitted with bending bridges measuring flapwise bending stress at 3 blade stations: .37, .51 and .71 radius, as shown in Figure 2.6. The gages were mounted internally so as not to affect the airfoil characteristics. An additional blade was instrumented by NASA to measure bending stresses at four radial stations flapwise (.26R, .40R, .65R, and .795R) and three radial stations chordwise (.26R, .40R and .60R) as shown in Figure 2.8. This increased instrumentation provided a more detail coverage of flapwise bending and a radial distribution of the chordwise bending. The placement of these gages on the exterior of the blade was defined to provide coverage for the first two flapwise modes and the first chordwise mode for use in the semi-empirical method of obtaining vibratory hub loads.

Vibratory chordwise blade stresses were monitored by axial strain gage measurements on the lag damper rod linkage which is equivalent to monitoring the root vibratory moment. Axial strain was measured on the pitch link for purposes both of monitoring control system stresses and blade torsional loads and to enable the vibratory forces measured at the hub balance to be corrected for pitch link loads.

All of the above quantities were displayed on oscilloscopes which were triggered from a pulse at zero azimuth position on number 1 blade to indicate the phasing of the response on the scopes. The information was also recorded on oscillographs.

The positions of the electric actuators which govern the swashplate motion and two-per-rev pitch amplitude were measured using
linear potentiometers of inifinte resolution. These voltages
were read in the control room using digitally indicating
millivolt potentiometers. The pots were wired and calibrated
in terms of collective pitch, longitudinal cyclic pitch, lateral
cyclic pitch, and two-per-rev pitch amplitude.

Rotor speed was measured by the voltage output of a D.C. generator driven by the hydraulic motor. A second indication of rotor speed was obtained by using a magnetic pickup triggered by a 60 tooth gear on the rotor shaft and connected to a counter with a digital display.

The voltage output from the NASA balance gages was filtered through the millivolt potentiometers (Imps) so that only the steady values remained; these were displayed in raw form on the "Imps" so that rolling moment at balance, rotor thrust, rotor drag and side force could be monitored during testing. The balance vibratory loads were also displayed on an oscillograph for monitoring of balance stresses and/or resonant conditions.

All the non-vibratory information i.e., rotor speed, steady balance loads, control positions in terms of collective, longitudinal, lateral, and 2/rev amplitude, and coning angle were automatically recorded at each test run on paper tape. The balance data was corrected for the primary interactions on a computer with on-line capability. The rotor behavior was made visible in the control room by means of closed circuit television and recorded on video tape.



FIGURE 2.1. REVERSE VELOCITY ROTOR TEST STAND INSTALLATION
IN NASA AMES 12 FT. PRESSURE TUNNEL
(LOOKING UP STREAM)

+ FNAC PAGE IS

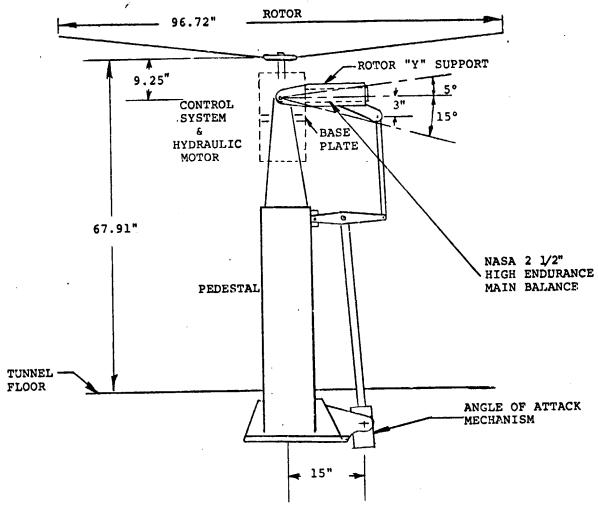


FIGURE 2.2. REVERSE VELOCITY ROTOR TEST STAND ARRANGEMENT OF MODLL AND PEDESTAL IN THE TUNNEL

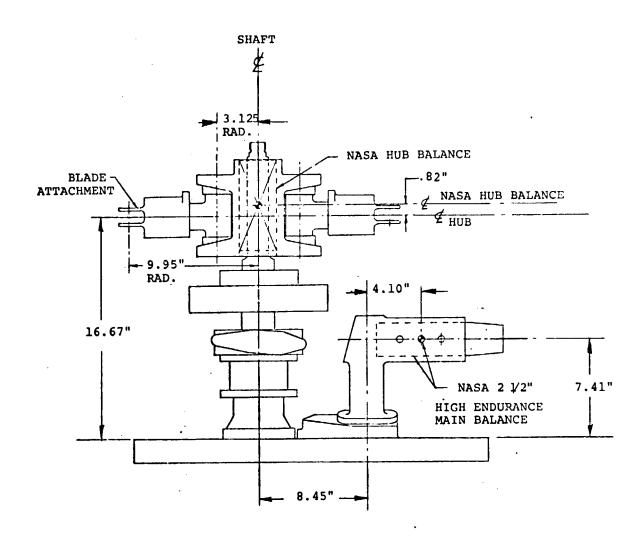


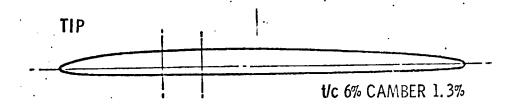
FIGURE 2.3. REVERSE VELOCITY ROTOR TEST STAND GEOMETRIC LAYOUT

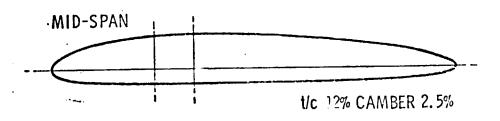
ORIGINAL PACIE IS OF POOR QUALITY

TABLE 2-1 ROTOR CHARACTERISTICS

Item	Value
Scaled Vehicle Gross Weight	400 lb .
Disk Loading	8.0 lb/sq.ft.
Solidity	.133
Hover Tip Speed	700 ft/sec
Number of Blades	4
Rotor Radius	48.36 in.
Blade Chord (Constant)	5.0 in.
Blade Linear Twist	0
Root Cutoff/Blade Radius	.23
Flapping Inertia per Blade	.8504 slug ft ²
Flapping Moment per Blade	12.697 lb.ft.
Lock Number (sea level atmosphere)	2.3
Lag Hinge Offset/Rotor Radius	.065
Pitch Flap Coupling Angle - Delta-3	26.5deg*

^{*}Other values available were not used during this test program.





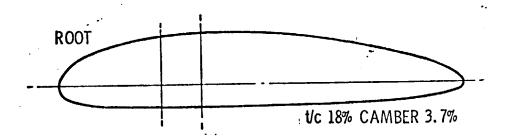


FIGURE 2.4. MODEL ROTOR AIRFOIL SECTIONS

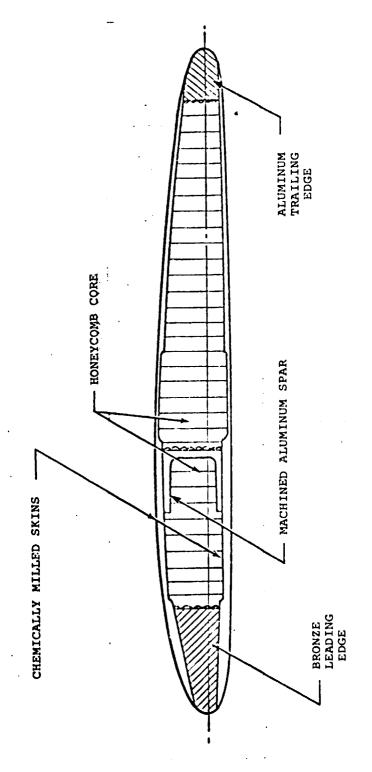


FIGURE 2.5. TYPICAL CROSS-SECTION OF MODEL ROTOR BLADE

ORIGINAL PAGE IS OF POOR QUALITY

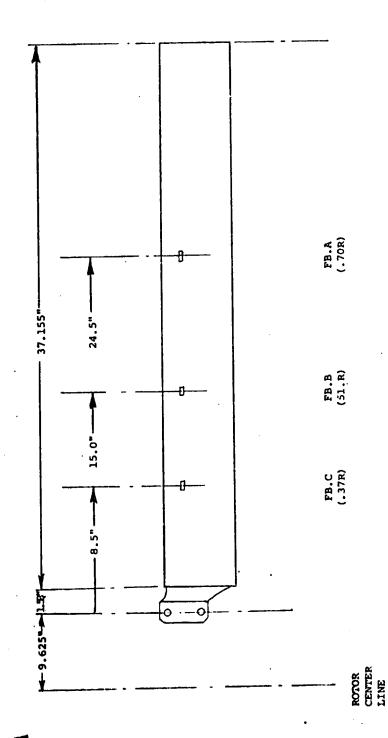


FIGURE 2.6 RVR BLADE STRAIN GAGE LOCATION INTERNAL INSTRUMENTATION - FAIRCHILD

ORIGINAL PAGE IS

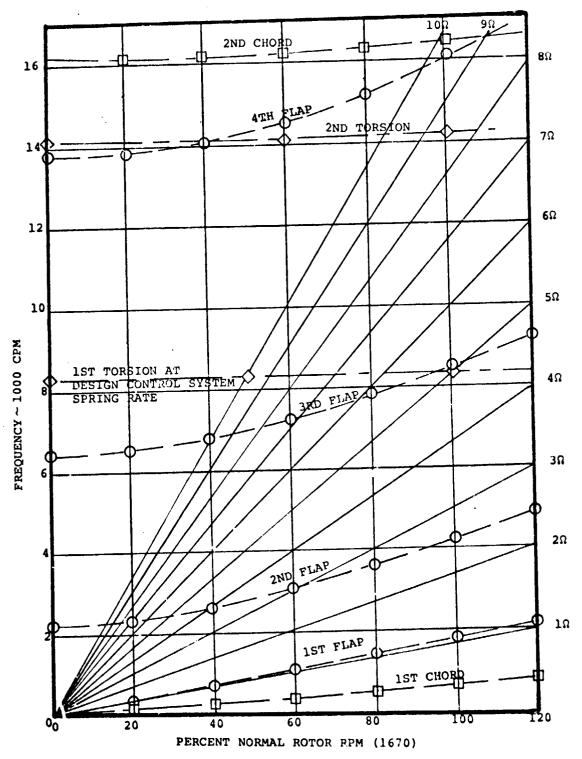


FIGURE 2.7. NATURAL FREQUENCY SPECTRUM
1/7 SCALE MODEL RVR ROTOR BLADE

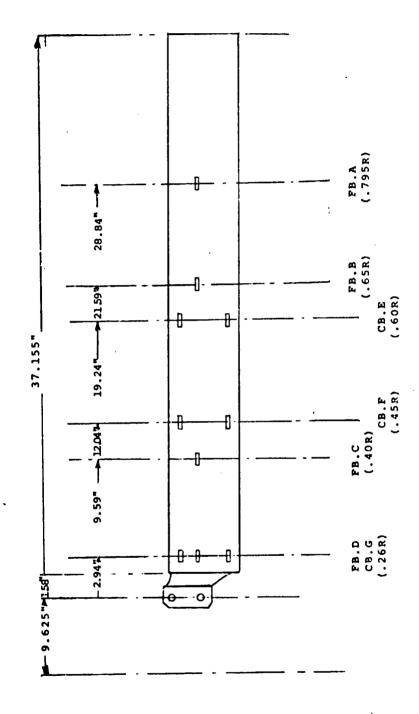
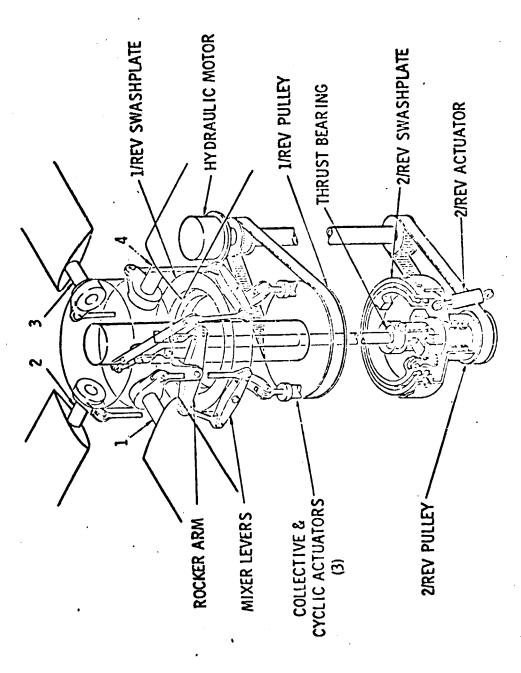


FIGURE 2.8 RVR BLADE STRAIN GAGE LOCATION EXTERNAL INSTRUMENTATION - NASA



PIGURE 2.9. REVERSE VELOCITY ROTOR MODEL CONTROL SYSTEM

3.0 TEST RESULTS

The test results are separated into two categories: a) the six component hub loads obtained from the rotating hub balance and b) the hub loads obtained by synthesis of general coordinates from the blade bending moments. Hub balance results were obtained over an advance ratio range from $\mu=0.3$ to 2.0 as shown in Table 3.1. Hub loads obtained from the generalized coordinate method were calculated for the same test conditions as the hub balance results, and additional test conditions where no hub balance data are available were analyzed to better identify data tiends.

Analysis of both categories of hub load data addresses the three major test variables: advance ratio, thrust and two per rev cyclic. These three parameters are considered the most important for the RVR for the following reasons:

- Rotor vibratory loads and helicopter vibration increases with advance ratio and the advance ratio range for the RVR is approximately 4 to 5 times greater than that of conventional helicopters.
- 2. Maneuvers require increased thrust capability which result in higher vibratory loads and increased vibration in the current helicopters. The impact of maneuvers or increased thrust at the higher speeds of the RVR could be intensified.

3. The use of 2P cyclic is required in the transition from low speed to high speed for stall delay. This use of (2P) cyclic is one fundamental difference between the RVR and conventional helicopters and the higher harmonic excitation from 2P cyclic provides a potential source of higher vibratory loads.

The discussion of the test results are presented in this sequence for the hub balance data and then for the generalized coordinate hub loads. The results from the two methods are then compared showing the relationship of vibratory thrust and overturning moment.

3.1 Hub Balance Data

Vibratory hub loads data were obtained from the rotating hub balance for all six components (three forces and three moments). A detailed description of the data reduction equations are presented in Appendix A and the tabulated test results are presented in Appendix B. Since the model is a 4-bladed rotor, the 4/rev component of these loads is the largest contributor to vibration and the results shown in this section are exclusively 4th harmonic content in the fixed system. The 4/rev fixed system hub loads are summarized in Appendix C and are presented in the following discussion.

The basic hub loads data obtained from the hub balance for a range of collective pitch are shown in Figures 3.1 thru 3.6. These data are plotted as a function of advance ratio and form the basis of the hub balance results. All the data shown are for zero 2 per rev cyclic and for a 5 degree aft shaft tilt except the data at $\mu = 1.2$.

which is 7.5 degrees aft shaft tilt. (No hub balance data was obtained at 5.0 degrees aft shaft tilt for an advance ratio of 1.2.) The advancing tip Mach numbers for these data are between .85 and .92 except for the = 2.0 data for which the advancing tip Mach number is .77. The test results for all six hub loads components generally show a lot of data scatter. The vibratory torque is quite small for an 8 foot diameter full scale tip speed model so the amount of data scatter present in the data is typical for a model of this size. With respect to the remaining five hub loads components there are three probable sources of data scatter:

- For a constant advance ratio, each data point is for a different collective pitch and steady thrust level. (A parametric study of thrust effects will later show this to be an important factor.)
- The correction factors to the basic hub balance loads could vary widely because of appreciable model test stand vibration.
- Blade flapping may not be trimmed to zero for each test data point.

In order to minimize data scatter and isolate the effect of advance ratio, the hub loads data were plotted as a function of thrust to determine the 1"g" level flight loads. Then like components (Fx and Fy) and (Mx and My) were combined vectorially to produce one in-plane force and one resultant overturning hub moment. The vector addition of these components minimizes the effect of changes in phase of 3/rev and 5/rev forces acting on the hub balance.

For example, the hub loads data tabulation in Appendix B show that for the same test conditions the 4/rev longitudinal force is small compared to the lateral force, or vice versa, with little change in the resultant inplane component. The test data shows the same to be true for the pitch and roll moments. Treating the data in this manner reduces the hub loads components to four: vibratory thrust, torque, in-plane force and overturning moment. The lg thrust results for these data are shown in Figures 3.7 and 3.8. The vibratory thrust and overturning moment are shown together as are the vibratory torque and in-plane force. This grouping was done purposely since each pair of hub loads components has the same primary source of vibration forcing. Vibratory thrust and overturni moment come from blade root vertical shears produced by blade flapping or out-of-plane motion. For a 4-bladed rotor, 4/rev fixed system thrust comes solely from 4/rev blade vertical shears. Likewise, 4/rev fixed system hub moments come from 3/rev and 5/rev blade vertical shears. The 3/rev and 5/rev shears trigonometrically add to 4/rev in the transformation from the rotating to fixed systems while the 4/rev rotating moment contributions cancel in the transformation. Vibratory in-plane force and torque are primarily due to blade chordwise shears. This is produced by blade lead-lag or in-plane motion, and by trigonometric addition, the 4/rev root shears are the source of 4/rev torque and 3/rev and 5/rev root shears are the source of the 4/rev in-plane force.

All four hub loads components have definite trends with advance ratio for 1g lift and zero 2/rev cyclic. In Figure 3.7, vibratory

thrust has two local maximums at μ =.7 and 1.6 for the advance ratio range up to 2 while vibratory overturning moment has a single peak at μ =1.2. The double peaks for thrust cannot be clearly explained. The source of the 4/rev fixed system thrust is blade root vertical 4/rev shears and the dominant blade mode is the first flexible flapwise mode. The highest 4/rev response of this mode would be expected at its 4/rev resonant frequency, and this resonant point occurs at an advance ratio slightly greater than 2 for normal advancing tip Mach numbers. Therefore, the advance ratio of maximum vertical response is outside the range covered and no firm reason can be given for the two response peaks for 4/rev thrust.

There is a model/test stand 3/rev longitudinal frequency resonance at the rotor RPM for μ =1.6 and a 2/rev longitudinal frequency resonance at the rotor RPM for μ =0.8 as indicated in Appendix F, Figures F.3 and F.4. It is also possible that a model/test stand natural mode of higher frequency occur at these rotor speeds but were not detected by the shake test. These modes could possibly contribute to the amplification of the 4/rev vertical shears and result in the high loads presented in Figure 3.7. The hub balance data reduction program is designed to correct for model shaking effects, but the problem obviously becomes more difficult for near-resonant conditions. An important point to consider is that, if the peaks are caused by model/test stand natural frequencies, the amplified loads will not be present on a full scale RVR rotor, and the load level of μ = 0.5, and 2.0 would be more representative of the actual load; therefore, the level of maximum

load is more than halved. Of course, it is possible that full scale fuselage (natural modes) will amplify the vibration but the identification of such modes is possible only in an advanced preliminary design stage.

The 4/rev overturning moment peak at μ = 1.2 is expected and is clearly due to a first flexible flapwise mode (2nd flap) 3/rev resonant frequency condition at this advance ratio. (Refer to Appendix F, Figure F.1). Three per rev and 5/rev rotating vertical shears combine to form 4/rev moments in the fixed system so 4/rev fixed system moment peaks can be expected at the 3/rev flap crossing (μ =1.2) and at the 5/rev flap crossing (μ >>2).

The 4/rev inplane force results in Figure 3.8 have the same double peak characteristic as the vertical force results. There is a peak near μ =1.6 and the 3/rev model/test stand natural mode resonant condition at this point is suspected to be the potential source of the amplification while the peak at μ =0.8 is possibly caused by the 2/rev model/test stand natural mode resonant condition. The double peaks of 4/rev in-plane force dominate the in-plane loads forcing up to μ =2.0; so if the peaks are due to model/test stand natural modes which will not be present on a full scale RVR, the realistic in-plane vibration is much lower than the peaks and about equal in magnitude to the 4/rev thrust loads at μ =0.3, 1.0 and 2.0.

The 4/rev torque results in Figure 3.8 are small compared to the 4/rev nub overturning moment. The trend shows a slight peak

at $\mu=1.2$ but the overall magnitude is so small that the 4/rev torque loading can be considered inconsequential.

The results shown in Figures 3.7 and 3.8 are for lg lift conditions at each advance ratio. Comparing these results with the data shown previously in Figures 3.1 thru 3.6 it is clear that steady rotor thrust has an impact on 4/rev hub vibration. This effect of steady rotor thrust is shown in Figures 3.9 and 3.10 for zero 2/rev cyclic. The gradients of 4/rev hub loads with thrust are shown as a function of advance ratio. This method of data presentation shows hub loads sensitivities to lift over the advance ratio test range.

Figure 3.9 shows the vibratory thrust and hub moment sensitivity to g's thrust for thrust excursions from a lg condition. The most important result of this figure is that the data collapse to definite trends with advance ratio for both 4/rev thrust and 4/rev moment. The highest sensitivity of vibratory thrust to g's thrust occurs at μ =1.4 which is close to the condition of highest vibratory thrust at lg (shown in Figure 3.7). At this point the loads increase at the rate of 40 lb per .lg so that for .4g's the increase is about 160 lb.or roughly equal to the lg loads. Therefore vibratory thrust in a 45 degree banked turn (1.4g's) at μ =1.4 would be double the level flight loads at the same advance ratio. Performing the same banked turn at higher or lower advance ratios results in a lower gradient of vibratory thrust. The vibratory hub moment has a similar thrust sensitivity trend but the peak hub

moment gradient occurs at $\mu=1.2$ As previously discussed, the first flexible flapwise mode 3/rev resonant frequency occurs near this advance ratio so maximum amplification of thrust induced hub moments can be expected at this point. Increasing or decreasing advance ratio from this point results in lower thrust sensitivity but another peak can be expected at higher advance ratio for which the first flexible flap mode 5/rev resonant frequency occurs.

The percentage variation of vibratory hub moment sensitivity to thrust about the lg condition at $\mu=1.2$ is about the same as that of the peak vibratory thrust gradient. The vibratory hub moment doubles for an increase of .4g's (equiv. to a 45 deg banked turn). Results for the effect of Δg 's thrust on vibratory in-plane force and torque are shown in Figure 3.10. Vibratory torque sensitivity to thrust is comparable to the lg level flight loads since both are quite small compared to the other hub load components.

The vibratory in-plane force results show a high sensitivity to g's and this sensitivity changes rapidly with advance ratio. At $\mu=1.2$, the change in 4/rev in-plane force per 0.1g thrust change is about 36 percent of the 1g load in Figure 3.8, so the vibratory in-plane force would increase by a factor of 2.5 over 1g loads for a 45 degree banked turn.

The effect of 2 per rev cyclic on 4/rev hub loads is shown in Figure 3.11 and 3.12. The results are presented as gradients per degree of 2 per rev cyclic for different advance ratios. The

sensitivity of 4 per rev thrust to two per rev cyclic decreases nearly linearly with increasing advance ratio. At $\mu=2.0$ vibratory thrust is not affected by 2 per rev cyclic, and at the advance ratio for highest lg level flight loads ($\mu=1.6$), 2 degrees of 2 per rev cyclic will increase 4/rev thrust 33% over lg loads. So the effect of 2 per rev cyclic on 4/rev thrust can be termed moderate, particularly since there is no increased sensitivity to 2 per rev cyclic at the advance ratio for highest lg vibratory thrust.

Sensitivity of 4/rev hub overturning moment to 2 per rev cyclic is nearly constant across the advance ratio range. At an advance ratio of 1.2, 2 deg of 2 per rev cyclic will increase the 4 per rev hub moments by 67% of the 1g loads.

Figure 3.12 shows the 2 per rev cyclic effects on vibratory torque and in-plane force. Vibratory torque sensitivity is shown by the cross-hatched area. Data scatter of vibratory torque with 2 per rev cyclic is large. A trend with a band width equal to the 1g vibratory torque is shown but this is quite small relative to the magnitude of vibratory hub overturning moments, and the loads shown can be considered inconsequential. The trend of 4/rev in-plane force with 2/rev

cyclic is quite smooth with increasing advance ratio. Sensitivity decreases with increasing advance ratio and at the condition of highest lg loads (μ =1.4) 2 degrees of 2 per rev cyclic increases the in-plane force 40% over lg loads.

3.2 <u>Vibratory Hub Loads Obtained From Generalized Coordinates</u>
This section summarizes the vibratory hub loads data obtained
by using the generalized coordinate approach. Derivation of
the approach is contained in Appendix D and a tabulation of
all the hub loads calculated by this approach is included in
Appendix E.

all of the hub loads data in this section were calculated by using the flapping degree of freedom generalized coordinate; that is, the coordinate obtained from the radial distribution of the blade flap bending moment. For an articulated rotor, the source of hub loads for this degree of freedom are the blade root vertical shears at the flapping pin. Four per rev blade root vertical shears result in 4/rev fixed system thrust and 3 and 5/rev blade root vertical shears combine trigonometrically to yield 4/rev fixed system hub overturning moments. The remaining three components (2 orthogonal in-plane forces and torque) require calculation of generalized coordinates for the in-plane degree of freedom, which in turn requires a measured chord bending moment radial distribution. Chord bending moments were not measured for the test runs shown in Table 3.1.

Testing performed late in the program with a blade instrumented for chordwise bending moment indicated that the alternating chordwise bending moments were very small, approximately 1/10 of the flap bending moments, and were predominantly 1/rev, not 3, 4 or 5/rev. The combination of very high chordwise stiffness and high chordwise natural frequencies result in small chord bending moment amplitudes that are difficult to accurately measure. The recorded load amplitude was considered to be below the revel that the instrumentation and conditioning equipment could accurately handle. It is therefore doubtful that the generalized coordinate method could be applied in the chordwise direction for this particular blade and provide meaningful results. This does not have a significant impact on the overall analysis effort and results since the hub balance data in Section 3.1 indicate that the vibratory thrust and hub moment are the two most important hub load components. The generalized coordinate results for these flap dependent components were obtained and are discussed in this section.

The vibratory thrust results obtained from generalized coordinates are shown in Figure 3.13 for zero 2 per rev cyclic. The thrust trend shows a steadily increasing load with increasing advance ratio. There are two local maximum points at μ =.7 and μ =1.4. But the important result is the apparent direct relationship between vibratory thrust and advance ratio. Unlike the 4/rev hub moment with a localized area of load amplification 4/rev thrust grows steadily worse with no indication of relief over the test advance ratio range.

Figures 3.14 and 3.15 show the vibratory 4 per rev hub moment results obtained from generalized coordinates. In order to provide a direct comparison with the hub balance data, the 4/rev hub pitch and roll moments have been combined vectorially to form one hub overturning moment. Figure 3.13 and 3.14 show the calculated hub moment as a function of advance ratio and rotor speed, respectively, for zero 2 per rev cyclic at 1g thrust. The hub moment trend peaks at $\mu=1.3$ or about 1050 RPM. The gradient is quite high above and below the maximum load. This peak is due to the 3/rev frequency crossing of the first flexible flapwise mode. These results clearly indicate that the hub moments and associated vibration can be sharply reduced by avoidance of this resonant frequency point.

Figure 3.16 shows the sensitivity of the vibratory thrust to 2 per rev cyclic. The results for 2 deg and 2 per rev cyclic are quite close to the vibratory thrust trend for no 2 per rev cyclic. The sensitivity of unsteady thrust to 2 per rev cyclic is small and even appears negative at μ =1.4. It is clear that the primary forcing of 4/rev thrust is fundamental airloading with advance ratio and not 2 per rev cyclic.

The effect of 2 per rev cyclic on 4/rev hub moment as calculated by generalized coordinates is shown in Figure 3.16. The trend of hub moment with advance ratio for zero 2 per rev cyclic is compared with the results for 2 degree of 2 per rev cyclic. There is an increase in hub moment sensitivity with 2 per rev

cyclic but the increase is nearly independent of advance ratio. Compared to the hub moment amplification at $\mu=1.3$, the effect of 2 per rev cyclic is small.

3.3 , Comparison of Balance and Generalized Coordinate Data
Based upon the results shown in the previous two sections, a
comparison between hub loads obtained from the rotating hub
balance and those obtained from generalized coordinates can be
made.

The comparison is limited to those 4 per rev hub loads components obtained from generalized coordinates: vertical force and hub overturning moment. Rotatir _ b balance data points corresponding to the generalized coordinate data or Figures 3.13 and 3.14 will be comapred and related to the 1 "G" hub balance data fairing of Figure 3.7. This is done in Figure 3.18 which presents the 4/rev thrust and hub moment results for both methods as a function of advance ratio. The vibratory thrust comparison indicates similarities and also fundamental differences in results between the two methods. The rotating balance results are double peaked with local maximum at μ =.7 and 1.6 whereas the generalized coordinates results exhibit only one distinct peak at the lower advance ratio followed by a trend of steadily increasing load with advance ratio. As previously discussed, the local maximums are most likely due to model/ test stand resonant frequencies which will not be present on a full scale rotor system.

The rotating balance results are generally substantially larger than the generalized coordinate loads but the trend is decreasing load for high advance ratios compared to increasing load for the generalized coordinate results. It is possible that the vibratory thrust trend with high advance ratios as measured by a balance is obscured by the resonant frequency response at $\mu=1.6$ and also any factors influencing additional forcing (model hub motions, deflections, etc.). It appears that the real vibratory load levels are best represented by the results from the generalized coordinate method. This is indicated by magnitude comparisons at $\mu=0.3$, 0.5, 1.2 and 2.0 where the vibratory thrust results are believed to be unamplified due to model/test stand natural frequencies.

The vibratory hub moment comparison (Figure 3.18) shows areas of good agreement and poor agreement between results for both methods. The delineator between good and poor correlation is obviously the effect of the 3/rev flap mode frequency crossing near p=1.3. For advance ratios well removed from this point of amplification, agreement between methods is very good. For advance ratios approaching the 3/rev resonant frequency crossing, the agreement becomes poorer. The rotating balance results show less sensitivity than the generalized coordinate results to the blade 3/rev crossing. The difference in magnitude is about a factor of 3 and the reason for this difference is unknown. The rotating balance data appears to be damped appreciably more at the resonant frequency crossing, but whether this characteristic is peculiar to the rotating

balance cannot be ascertained.

Figure 3.19 is a comparison between methods showing the effect of 2/rev cyclic for both vibratory thrust and hub moment. results are presented as a delta change in load per degree of 2 per rev cyclic as a function of advance ratio. For vibratory thrust, the comparison shows that results obtained from generalized coordinates are nearly insensitive to 2 per rev cyclic over an advance ratio range of μ =.8 to 2.0. The magnitude is approximately 10 lbs (.05 g's) per degree of 2 per rev cyclic and the direction of change is slightly positive for low advance ratios reducing to zero for the highest advance ratios. The implication is that a slight change in the 4/rev vibratory thrust results from 2 per rev cyclic at all advance ratios tested. The rotating balance results differ only in the magnitude of the vibratory thrust change with 2 per rev cyclic. It is substantially larger than that indicated by the generalized coordinate results, particularly for the lower advance ratios. The rate is about 40 lbs. (.20 g's) per degree of 2 per rev cyclic. This rate decreases with advance ratio to about 10 lbs (.05 g's) per degree at μ =2.0.

The differences between 4/rev thrust results with 2 per rev cyclic for the two methods cannot be explained. Little is known about higher harmonic cyclic effects on off-harmonics, such as the case here. Intuitively it would seem that 2/rev cyclic should affect 4/rev thrust only indirectly since the major effect involved is an azimuthal redistribution of 1/rev airloads with 2 per rev cyclic rather than development of 2/rev, 3/rev or 4/rev airloading.

This result occurs largely because of the nose down phasing of 2/rev cyclic on the advancing and retreating sides. A diametric change in 2 per rev cyclic phasing would be more likely to produce higher harmonics of airloading, although again, the major change would be a change in 1/rev airloading. The implication is that the best estimate of 2/rev cyclic effects on thrust is little or no change in 4/rev thrust. For this case the generalized coordinate results are probably closer to the actual load.

Results for hub moment sensitivity to 2 per rev cyclic are compared in the lower half of Figure 3.19. The generalized coordinate results indicate a low sensitivity of hub moment to 2 per rev cyclic. The direction of sensitivity is increasing hub moment with 2 per rev cyclic and the magnitude is about 100 in.lb/degree. This sensitivity is quite small compared to the high hub moments for zero two per rev cyclic near the 3 per rev flap frequency crossing shown in Figure 3.18. For a large range of advance ratio, these lg loads without 2 per rev cyclic are at least 10 times larger than the max load change for 1 degree for 2 per rev cyclic. However, for advance ratios above and below 3 per rev crossing, the sensitivity to 2 per rev cyclic approaches the lg loads and therefore becomes more important. For example, $\mu=1.0$, 1 degree of 2 per rev cyclic increases the hub moment 16 percent over 1g loads without 2 per rev cyclic and at μ=2.0 the increase is 100%. The rotating balance hub moment results are more sensitive to 2 per rev cyclic between advance ratios of 0.8 and 1.4. The highest sensitivity occurs at u=1.2 where the increment due to 1 degree of 2 per rev cyclic is

40 percent of the 1g load without 2 per rev cyclic but is three times greater than that defined by the generalized coordinate method.

For increasing advance ratios from 1.2, the sensitivity slowly decreases, approaching the level defined by the generalized coordinates. The hub moment obtained from generalized coordinates shows no significant changes in sensitivity at these conditions, but rather a smooth trend with advance ratio. Just as for the vibratory thrust results, it is difficult to determine what trend is more nearly correct (hub balance or generalized coordinate). The primary difference between the vibratory thrust and hub moment results is the presence of a real dynamic resonance point with a strong effect on hub moments but no logical effect on vibratory thrust. In this sense the vibratory thrust results are more clearly forced response with 2 per rev cyclic altering the forcing. The exception to this is the probable presence of model/test stand natural modes that affect 4 per rev thrust response, as shown by the rotating balance results. The dynamic resonance point affecting hub moments is a fundamental characteristic of the rotor system and it will occur as long as the rotor speed is sufficiently reduced to approach the 3/rev 2nd flap mode frequency. Therefore, for the hub balance, it is quite possible that 2/rev cyclic has a larger effect on the 4/rev hub moments which come from 3/rev vertical shears, than on 4/rev thrust. The extent to which the sensitivity should increase for hub moment is not known but the generalized coordinate trends are considered closer to that for a full scale rotor.

RUN	μ	RPM	^M 190	αs	^θ 2 ρ
84*	.7	1440	.92	5	0, 2, 4
85*	.9	1300	.92	5	0, 2, 4
86*	1.2	1120	.92	5	0, 2, 4
97 *	1.4	960	.85	5	0, 2, 4
88	. 3	1670	.81	5	0
89	.5	1630	.92	5	o
90	.79	1360	.92	5	0, 2, 4
91	1.4	950	.85	5	0, 1, 2, 3
92	1.6	880	.85	5	0, 1, 2
116	1.4	950	.84	7.5	0
118	1.95	725	.78	0	0
121	2.0	700	.77	5	0, 1, 2
123	1.2	1140	.92	7.5	0, 2, 4

* Generalized Coordinate Analysis Only

Table 3-1 Test Conditions For Which Vibratory Hub Loads Data Are Available

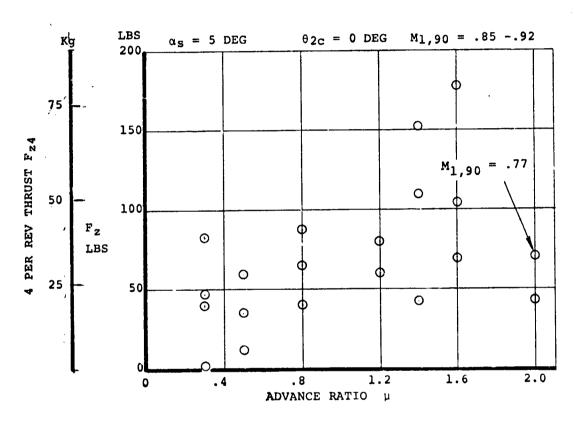


FIGURE 3.1 RVR WIND TUNNEL MODEL 4 PER REV FIXED SYSTEM THRUST FOR 5 DEG AFT SHAFT TILT AND ZERO 2 PER REV CYCLIC (ROTATING HUB BALANCE DATA)

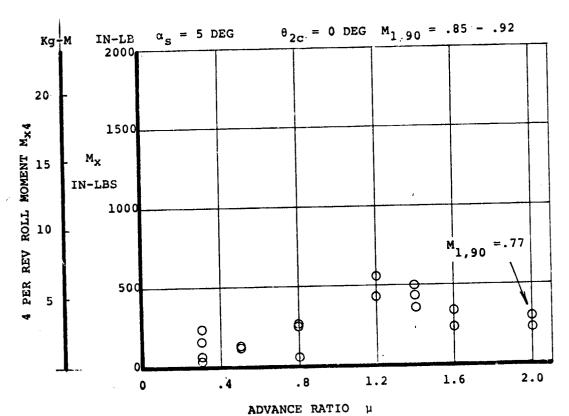
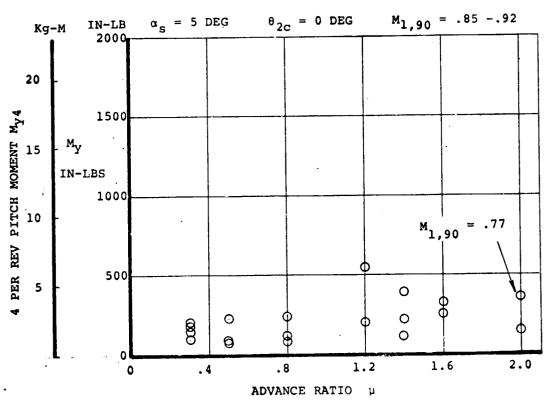


FIGURE 3.2 RVR WIND TUNNEL MODEL 4 PER REV FIXED SYSTEM ROLL MOMENT FOR 5 DEG AFT SHAFT TILT AND ZERO 2 PER REV CYCLIC (ROTATING HUB BALANCE DATA)



PIGURE 3.3 RVR WIND TUNNEL MODEL 4 PER REV FIXED SYSTEM PITCH MOMENT FOR 5 DEG AFT SHAFT TILT AND ZERO 2 PER REV CYCLIC (ROTATING HUB BALANCE DATA)

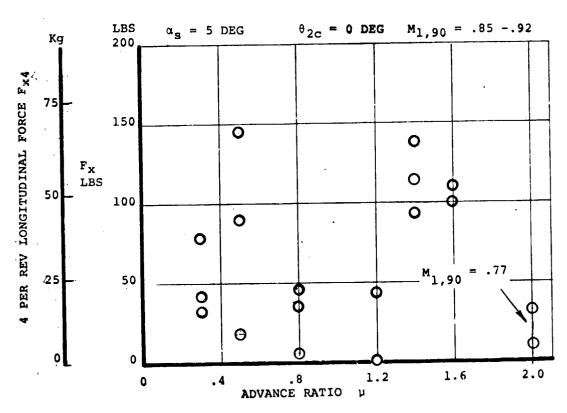


FIGURE 3.4 RVR WIND TUNNEL MODEL 4 PER REV FIXED SYSTEM LONGITUDINAL FORCE FOR 5 DEG AFT SHAFT TILT AND ZERO 2 PER REV CYCLIC (ROTATING HUB BALANCE DATA)

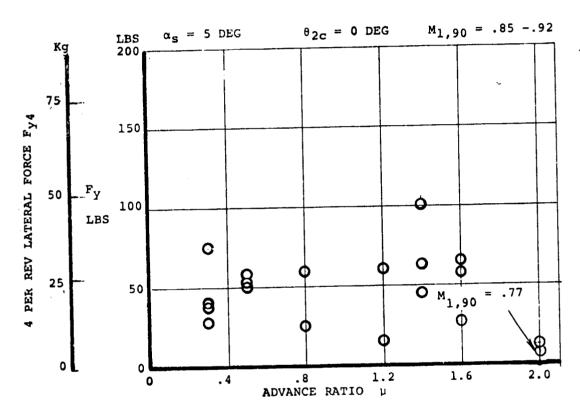


FIGURE 3.5 RVR WIND TUNNEL MODEL 4 PER REV FIXED SYSTEM LATERAL FORCE FOR 5 DEG AFT SHAFT TILT AND ZERO 2 PER REV CYCLIC (ROTATING HUB BALANCE DATA)

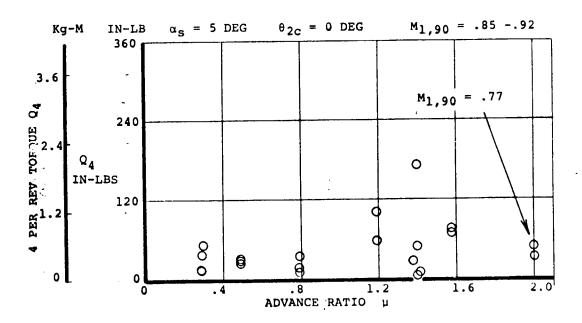


FIGURE 3.6 RVR WIND TUNNEL MODEL 4 PER REV FIXED SYSTEM TORQUE FOR 5 DEG AFT SHAFT TILT AND ZERO 2 PER REV CYCLIC (ROTATING HUB BALANCE DATA)

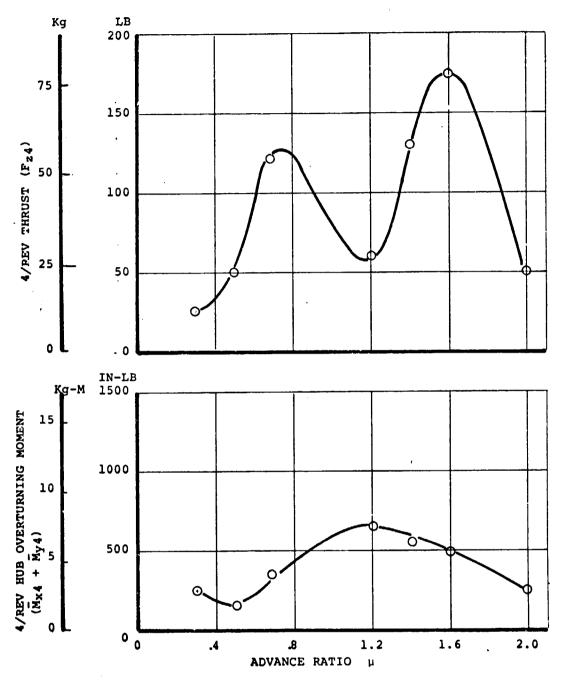


FIGURE 3.7 RVR WIND TUNNEL MODEL MEASURED 4 PER REV FIXED SYSTEM HUB LOADS FCR ZERO 2 PER REV CYCLIC AND 1G LIFT (ROTATING HUB BALANCE DATA)

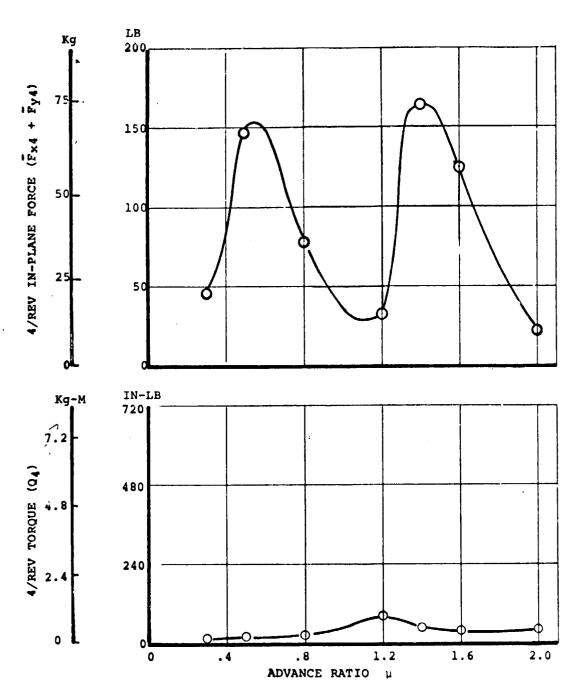


FIGURE 3.8 RVR WIND TUNNEL MODEL MEASURED 4 PER REV FIXED SYSTEM HUB LOADS FOR ZERO 2 PER REV CYCLIC AND 1G LIFT (ROTATING HUB BALANCE DATA)

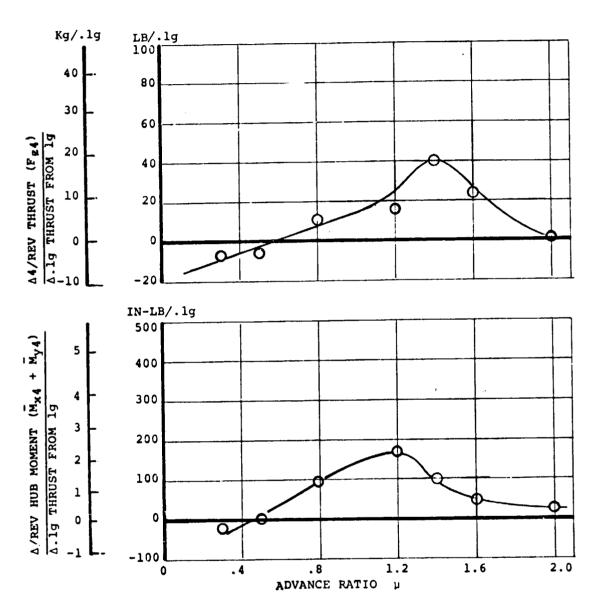


FIGURE 3.9 EFFECT OF G's THRUST ON 4/REV FIXED SYSTEM HUB LOADS (ROTATING HUB BALANCE DATA)

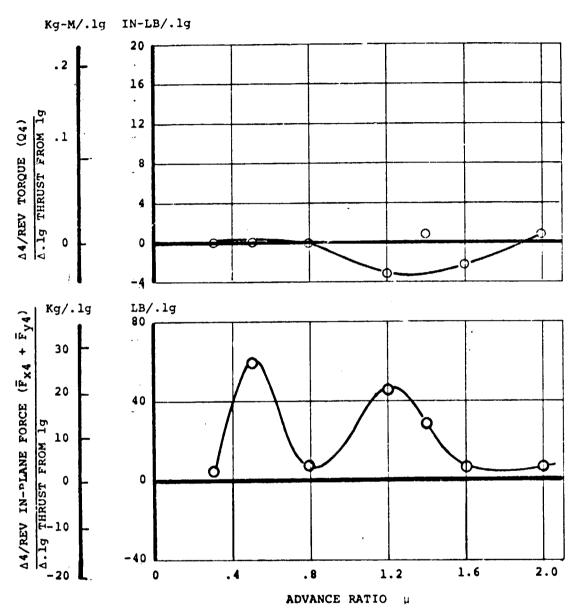


FIGURE 3.10 EFFECT OF G's THRUST ON 4/REV FIXED SYSTEM HUB LOADS (ROTATING HUB BALANCE DATA) \cdot

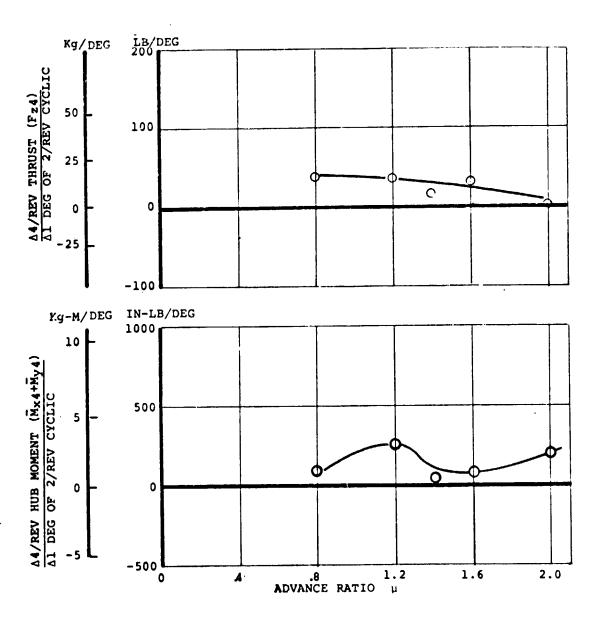
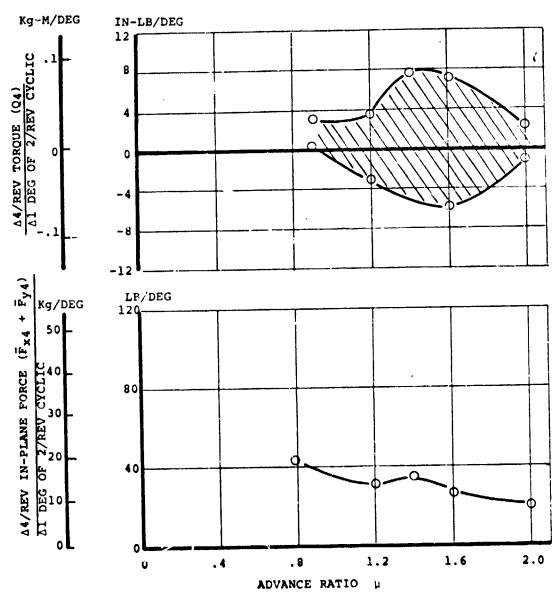


FIGURE 3.11 RVR WIND TUNNEL MODEL EFFECT OF 2 PER REV CYCLIC ON MEASURED 4 PER REV FIXED SYSTEM HUB LOADS (ROTATING HUB BALANCE DATA)



TIGURE 3.12 RVR WIND TUNNEL MODEL EFFECT OF 2 PER REV CYCLIC ON MEASURED 4 PER REV FIXED SYSTEM HUB LOADS (ROTATING HUB BALANCE DATA)

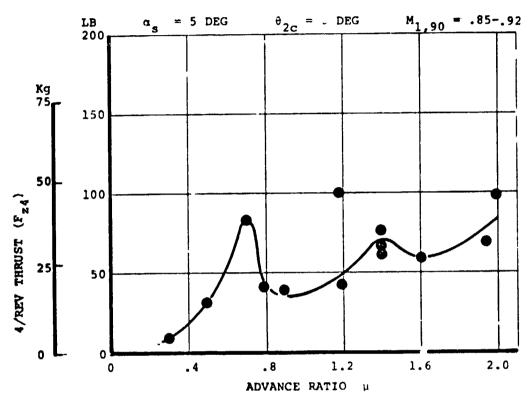


FIGURE 3.13 RVR WIND TUNNEL MODEL 4/REV FIXED SYSTEM HUB THRUST (OBTAINED FROM GENERALIZED COORDINATES)

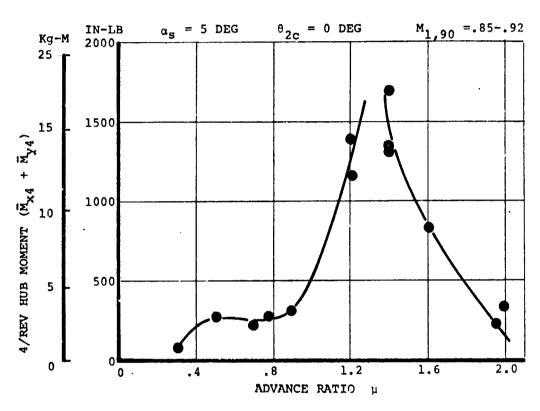


FIGURE 3.14 RVR WIND TUNNEL MODEL 4/REV FIXED SYSTEM HUB OVERTURNING MOMENT (OBTAINED FROM GENERALIZED COORDINATES)

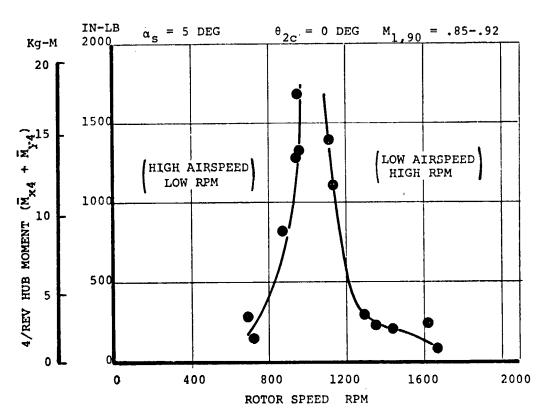


FIGURE 3.15 RVR WIND TUNNEL MODEL 4/REV FIXED SYSTEM HUB OVERTURNING MOMENT VARIATION WITH ROTOR SPEED (OBTAINED FROM GENERALIZED COORDINATES)

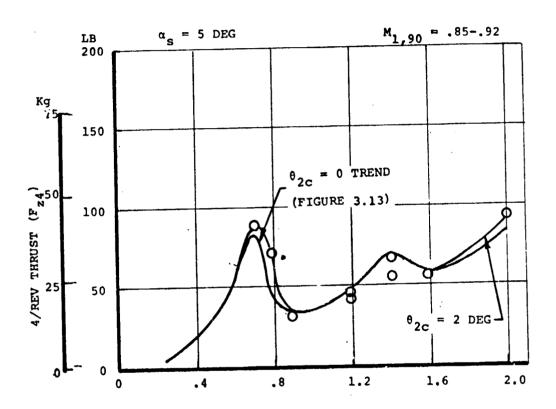


FIGURE 3.16 RVR WIND TUNNEL MODEL EFFECT OF 2 PER REV CYCLIC ON 4 PER REV FIXED SYSTEM HUB THRUST (OBTAINED FROM GENERALIZED COORDINATES)

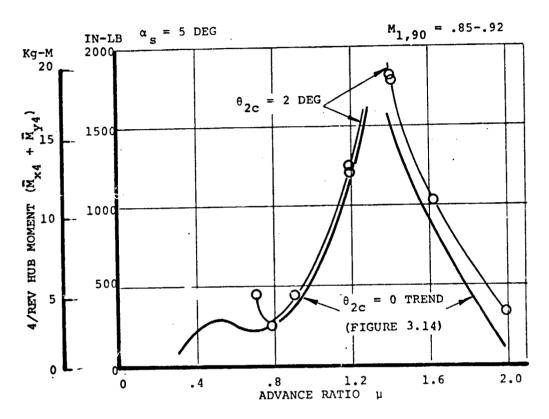


FIGURE 3.17 RVR WIND TUNNEL MODEL EFFECT OF 2 PER REV CYCLIC ON 4 PER REV FIXED SYSTEM HUB OVERTURNING MOMENT (OBTAINED FROM GENERALIZED COORDINATES)

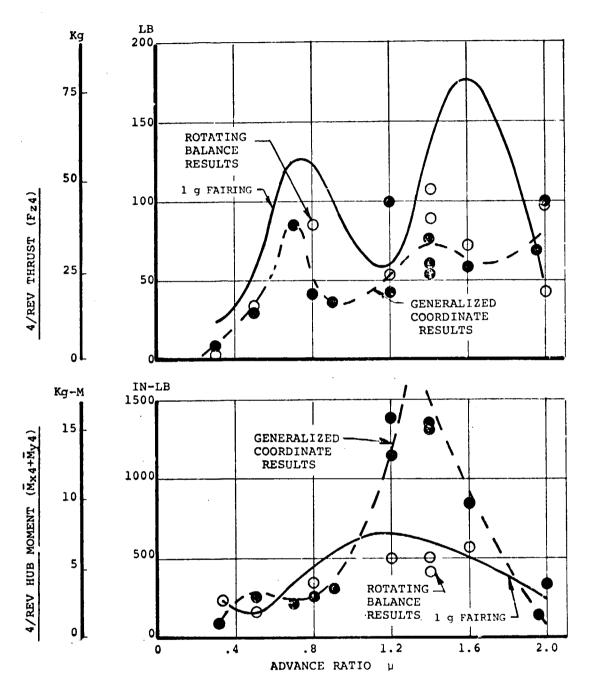


FIGURE 3.18 RVR WIND TUNNEL MODEL COMPARISON OF 4 PER REV FIXED SYSTEM HUB LOADS FOR ZERO 2 PER REV CYCLIC AND 19 LIFT OBTAINED FROM ROTATING BALANCE AND FROM GENERALIZED COORDINATES

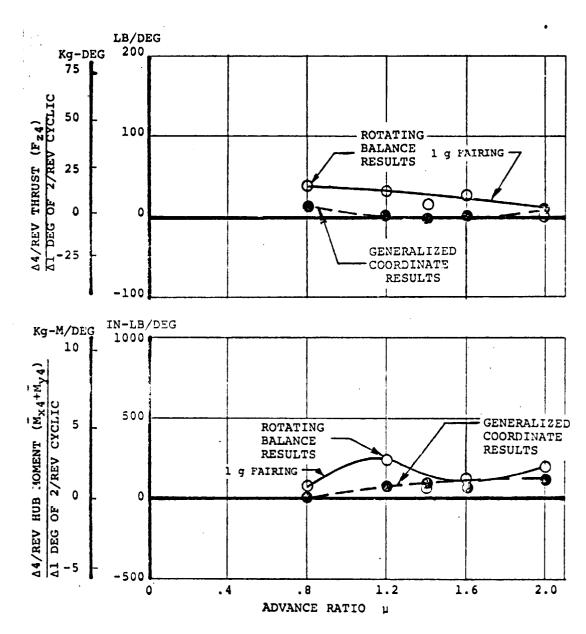


FIGURE 3.19 RVR WIND TUNNEL MODEL COMPARISON OF EFFECT OF 2 PER REV CYCLIC ON 4 PER REV FIXED SYSTEM HUB LOADS AS OBTAINED FROM ROTATING BALANCE AND FROM GENERALIZED COORDINATES

4.0 CONCLUSIONS

Conclusions drawn from the results shown in Section 3 are limited to the three hub loads components (F_z , M_x and M_y) for which data from both methods (rotating balance and generalized coordinates) are available.

- nate method can be used to compute vibratory hub loads for a model rotor. Both methods are readily applicable to model test data given some pertinent information about the model, such as geometry and blade dynamic characteristics. The most significant unknown is the dynamic characteristics of the model/test stand and how they affect the hub loads through inertial loading.
- 2. Comparison of results between the rotating balance method and the generalized coordinate method shows poor correlation for both vibratory thrust and hub overturning moment. There are different reasons for the disparity in results in each case. For vibratory thrust the rotating balance results seem quite sensitive to model/test stand resonance conditions at different rotor speeds across the advance ratio range. A model longitudinal mode is suspected as the source of 2 peaks in the rotating balance thrust results but the mechanism of interaction is not understood. For advance ratios removed from these resonance conditions, the agreement between rotating balance results and generalized coordinates results are good.

The generalized coordinate results for vibratory thrust show some sensitivity to one of these peaks at the lower advance ratio $(\mu\text{=-}.7)$. Thereafter, a nearly linear trend, increasing with advance ratio, is exhibited with a suppressed peak at $\mu\text{=}1.4$. The effect of these resonance points on the rotating balance results is believed to obscure the actual thrust results across the advance ratio range. The implication from this is that model/test stand resonances are important considerations when attempting to measure hub loads since both quantitative and qualitative results are directly connected to the model/test stand dynamic characteristics.

For vibratory hub overturning moment, results from both methods agree at low and high advance ratios. At advance ratios between 1.0 and 1.6, the disagreement in the results is again due to a resonance point, but the source of resonance is quite different from the thrust results. The primary source of hub moment forcing is the 3/rev resonance point for the first flexible flapwise mode (2nd flap mode). This resonance occurs as a result of reducing the rotor speed to increase advance ratio to obtain the desired test condition. This is a natural characteristic of articulated rotors and not connected to the model/test stand modes previously discussed. The generalized coordinate results show an extremely high sensitivity to this 3/rev crossing. An estimation of the damping (assuming a second order spring mass damper system) is about 4% which is close to that predicted(3%) for the first flexible flap mode. The rotating balance hub moment results exhibit

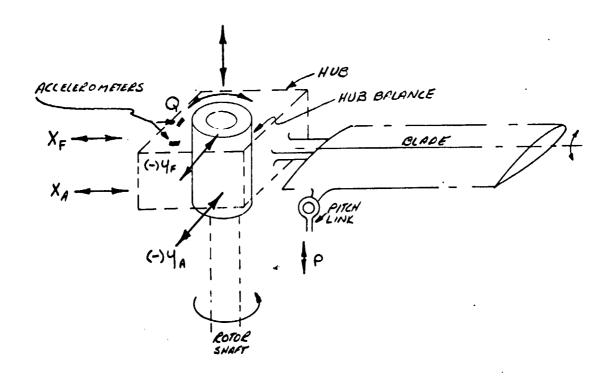
- a damping on the order of 30 percent. Substantial damping in pitch and roll is being obtained by the model balance that is not evident in the blade flap modes, and this damping is probably peculiar to this particular model.
- 3. Analysis of the results and the conclusions above indicate the generalized coordinate method would be the most reliable way of obtaining hub loads. The apparent advantage of minimizing model/test stand dynamic interaction is the strongest reason for recommendation since the complications of attempting to account for these inertial effects is avoided. Also, the complexity of load measurement is reduced with the generalized coordinate method from a 6 component balance in the rotating system plus pitch links and the aforementioned inertial load measurements to blade bending moment gages. For a four bladed rotor, 10 measurements are required for 6 component hub loads compared to 6 blade bending gages (3 flap and 3 chord) for the generalized coordinate method.
- 4. Analysis of the results indicate that 2 separate vibration trends can be expected for a 4 bladed RVR rotor system. First, 4 per rev thrust will steadily increase with increasing airspeed. Vibratory thrust at μ =2.0 is roughly 4 times that at μ =.4. Secondly, 4 per rev hub moment is directly associated with proximity to the first flexible flap mode frequency at 3/rev. High 4/rev hub moments result from this close proximity while hub moments at μ =2.0 are equal or lower in magnitude to loads at μ =.4.

5.0 REFERENCES

- HELICOTPER VIBRATION REDUCTION WITH PENDULUM ABSORBERS,
 American Helicopter Society Journal, Vol 2, No 3,
 July 1975, R. Taylor and P. Teare.
- 2. FURTHER MODEL WIND TUNNEL TESTS OF A REVERSE VELOCITY ROTOR SYSTEM, Fairchild Republic Company Report HC171R1089, J. R. Ewans, F. J. McHugh, R. P. Seagrist, R. B. Taylor.
- 3. MODEL WIND TUNNEL TESTS OF A REVERSE VELOCITY ROTOR SYSTEM, Fairchild Republic Company Report HC144R1070, J. R. Ewans and T. A. Krauss.

APPENDIX A - ROTATING HUB BALANCE DATA REDUCTION EQUATIONS

Reduction of the dynamic data obtained from the hub balance was performed by NASA. The computer program utilized was written by Ron Smith, NASA Test Project Engineer, and is presented in this section.



Dynamic Hub Balance - 6 Components
Accelerometers - 3 Components
Pitch Link Load - 1 Component

These 10 components of data were recorded on analog magnetic tape which was then analyzed by taking the direct Fourier transform on the TD90. TD90 creates a digital tape compatible with the IBM 360 which will perform the following operations:

TD90 Tape Variables

x''	Ξ	Upper Longitudinal Force,	cts
x' '	Ξ	Lower " "	**
$y_{\mathbf{F}}^{i}$	Ξ	Upper Side "	11
YA'	Ξ	Lower "	11
T''	Ξ	Thrust "	11
Q''	Ξ	Shaft Torque,	11
a''	Ξ	Longitudinal Acceleration	ı "
a''	Ξ	Side "	**
ē T	Ξ	Vertical "	"
P''	Ξ	Pitch Link Force	"

There are 28 values in sequence for each of these 10 variables in one record. Each value is associated with a different value of the subscript i (i = 1, 28). The subscript i will be inferred in the following data reduction equations; hence, in general, each indicated operation will be done 28 times for each data record

TD90 Tape Record Format

HARMONIC	+	D.C.	1P	2P	3P	 13P	(REAL PART)
i	→	1	2	3	4	 14	
HARMONIC	•>	D.C.	1P	2P	3P	 13P	(IMAG.PART)
i	+	15	16	17	18	 28	1

Conversion to Physical Units

$$(x'_F)_{LB} = \frac{K_{XF}}{(CAL.RDG.)_{cts}}(X''_F)_{cts}$$

$$(x'_A)_{LB} = \frac{K_{XA}}{(CAL.RDG.)_{Cts}} (X''_A)_{Cts}$$

NOTE: CAL.RDGS. will be found in location
$$i = 2$$
 of the "CAL." record.

$$(Y'_F)_{LB} = \frac{K_{YF}}{(CAL.RDG.)_{cts}} (Y''_F)_{cts}$$

$$(Y'_A)_{LB} = \frac{K_{YA}}{(CAL.RDG.)}_{cts} (Y''_A)_{cts}$$

$$T')_{LB} = \frac{K_T}{(CAL.RDG.)}_{cts} (T'')_{cts}$$

$$(Q')_{\text{FT-LB}} = \frac{K_Q}{(CAL.RDG.)_{\text{cts}}}$$
 (Q") cts

$$(a_x)_{G's} = \frac{K_{ax}}{(CAL.RDG.)_{Cts}}$$
 $(a''_x)_{Cts}$

$$(a_y)_{G's} = \frac{K_{ay}}{(CAL.RDG)_{cts}}$$
 $(a''_y)_{cts}$

$$(a_T)_{G's} = \frac{K_{aT}}{(CAL.RDG.)_{Cts}} (a_T)_{Cts}$$

$$(P)_{LB} = \frac{K_P}{(CAL.RDG.)_{cts}}$$

Definition of Forces and Moments in Rotating System

Balance Forces:

$$(x_F)_{LB} = (x_F)_{LB} + Interaction Corr.$$

$$(x_A)_{LB} = (x_A)_{LB} + "$$

$$(y_F)_{LB} = (y'_F)_{LB} + Interaction Corr.$$
 $(y_A)_{LB} - (y'_A)_{LB} + " "$
 $(T)_{LB} = (T')_{TB} + " "$

$$(Q)_{FT-LB} = (Q)_{FT-LB} +$$
"

Iterate for Interactions in the Usual Manner

Inertial Force Corrections

$$(I_x)_{LB} = (a_x)_{G's} (W_H)_{LB}$$

$$(I_Y)_{LB} = (a_Y)_{G's} (W_H)_{LB}$$

$$(I_T)_{LB} = (a_T)_{G'S} (W_V)_{LB}$$

Corrected Balance Forces:

$$x = (x_F)_{LB} + (x_A)_{LB} + (x_X)_{LB}$$

$$y = (y_F)_{LB} + (y_A)_{LB} + (I_y)_{LB}$$

$$T = (T)_{LB} + (I_T)_{LB}$$

$$m = (x_A)_{LB} - (x_F)_{LB}]$$

$$\ell = [y [(y_F)_{LB} - (y_A)_{LB}]$$

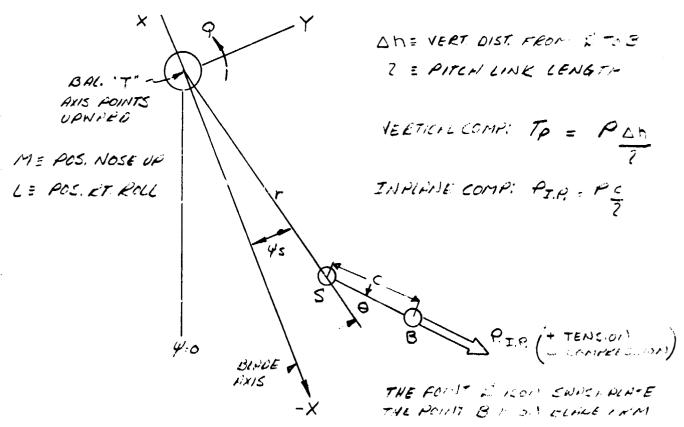
$$Q = (Q)_{FT-LB}$$

Constants

$$W_{\mathrm{H}}$$
 Ξ Weight of Rotor incl. Blades

$$W_{L}$$
 \equiv Effective Weight of Rotor in Vertical Direction

Resolution of Pitch Link Components



Pitch Link Force & Moment Components

$$X \rho = - + \frac{C}{2} = CC(4s + 0)$$

$$G_{1}, G_{1}, f_{2} = 0$$

$$G_{2}, G_{1}, f_{3} = 0$$

$$G_{2}, G_{3}, f_{3} = 0$$

$$G_{3}, G_{2}, G_{3} = 0$$

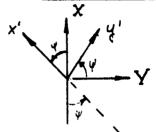
$$G_{3}, G_{3}, f_{3} = 0$$

$$G_{3}, G_{3}, G_{3}, G_{3} = 0$$

$$G_{3},$$

NOTE: - Assumes no significant dynamic deviation of geometric relationships. (i.e. θ , c & Δh assumed const.)

Transformation of Rotating Forces to Fixed Frame



(sign convention conforms to Gessow & Mayers)

LONGITUDINAL FORCE

LATERAL FORCE

4P Resultant Forces (3P & 5P in Rotat. Sys.)

We will use the trig. identities:

$$SIN n\psi = \frac{1}{2} \left[\cos(n+1) \psi + \cos(n-1) \psi \right]$$

$$\cos n \psi = \sin \psi = \frac{1}{2} \left[\sin(n+1) \psi - \sin(n-1) \psi \right]$$

$$SIN n\psi = \cos \psi - \frac{1}{2} \left[\cos(n-1) \psi - \cos(n-1) \psi \right]$$

$$SIN n\psi = \cos \psi - \frac{1}{2} \sin(n+1) \psi + \sin(n-1) \psi$$

The components of 4P in fixed fram due to 3P & 5P in the rotating system will be kept separated so that reference can be made as to the origin of the force.

4 Blade Rotor - all resultant harmonics but 4P, 8P, 12P will be filtered out.

LONGITUDINAL FORCE, X

4F DUE TO EP: X3 = Xc3 COSE 4 COS 4 X5, SWEY COS 4 + YC2 COS 34 SIN 4+ YS2 SIN 24 SIN 4

= XC3 COS4 4+XS3 SIN4 4+ YC3 SIN44- Y23 COS44

 $X_3 = \frac{1}{2} (X_{c_2} - Y_{s_2}) (0.54 \psi - 2(X_{s_3} + Y_{c_2}) SIN4 \psi$ 4P due to 5P:

X = X = COS 5 y COS y + X = SIN 5 y COS y - YEE COSEWSING + YSE SIN SUSING

= Xcs cos 4 4 + Xcs SIN 4 4 - Ycs SIN 4 4 + Yss Cos 4 4

X5= 12 (XC5 + YS5) COSA W. (XSC - YC5) SIN 4 W

Similarly, the 8P and 12P resultant forces are found to be:

8P DUE TO 7P:

X7=1/2 (xc7-Y57) cosequís (X5,+Yc7) 211/84

BP OUE TO 9,000

X = 1/2 (x cg + Ysg) cos 8 4 - 1/2 (x-g - Ycg) SNB 4

LONG. FORCE (CONT)

12 P DUE TO 11P: X,=12 (Xc,-Ys,) COS124+1/2 (Xx, +Yc,) SN ZY

12 H OUE TO 12 PZ X 12 = 12 (Neg + Ys. E) CO2 12 44/2 (Xs. = Yc.) 201 - 4

LATERAL FORCE,

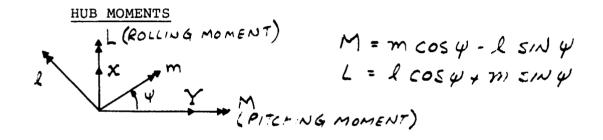
4P due to 3P: $Y_3 = -x_{c_3} \cos 2\psi \sin \psi - x_{c_3} \sin 2\psi \sin \psi$ $+ y_{c_3} \cos 2\psi \cos \psi + y_{s_3} \sin 2\psi \cos \psi$ $= -x_{c_3} \sin 4\psi + \frac{1}{2} x_{s_3} \cos 4\psi + y_{c_3} \cos 4\psi + y_{s_3} \sin 4\psi$

Y3 = 1/2 (4c3 + x53) COS44+1/2 (-Xc3 + 453) SIN44

4P due to 5P: $Y_5 = -x_{c_5} \cos s \psi s m \psi - x_{s_5} s m s \psi s m \psi$ $+ y_{c_5} \cos s \psi \cos \psi + y_{s_5} s m s \psi \cos \psi$ $= + x_{c_5} s m 4 \psi - x_{s_5} \cos 4 \psi + y_{c_5} \cos 4 \psi + y_{s_5} s m 4 \psi$ $\frac{1}{2} \frac{1}{2} \frac{1}{$

YE = 1/2 (455 - XIS) COS 44 + 1/2 (455 + XIS) SWI 4

8P due to 7P: $Y_7 = \frac{1}{2} (Y_{c_7} + X_{S_7}) \cos \frac{8\psi + 1}{2} (-X_{c_7} + Y_{S_7}) \sin \frac{8\psi}{2}$ 8P due to 9P: $Y_9 = \frac{1}{2} (-X_{S_9} + Y_{c_9}) \cos \frac{8\psi + 1}{2} (Y_{S_9} + X_{c_9}) \sin \frac{8\psi}{2}$ 12P due to 11P: $Y_{11} = \frac{1}{2} (Y_{c_{11}} + X_{S_{11}}) \cos \frac{12\psi + 1}{2} (-X_{c_{11}} + Y_{S_{11}}) \sin \frac{12\psi}{2} (Y_{S_9} + X_{C_{12}}) \cos \frac{12\psi + 1}{2} (Y_{S_9} + X_{C_{12}}) \sin \frac{12\psi}{2}$ 12P due to 13P: $Y_{13} = \frac{1}{2} (-X_{S_{12}} + Y_{C_{12}}) \cos \frac{12\psi + 1}{2} (Y_{S_9} + X_{C_{12}}) \sin \frac{12\psi}{2}$



Notice that M is like Y with "m" for "y" and "l" for "x".

Also L is like X. So we can use expressions for X and Y by replacing "y" with "m" and "x" with " ℓ ".

Equations and IBM Output Format

The individual components of force and moment in the fixed system for a four bladed rotor are summarized in Table A-1 and A-2. Table A-1 defines the equations and the output format for the inplane components and Table A-2 defines the equations and output format for the vertical components.

ORIGINAL PAGE ES OF POOR QUALITY

TABLE A-1 FORCES AND MOMENTS IN FIXED FRAME FOR A 4 BLADED ROTOR SYSTEM

SUBSCRIPTS DEFINED ON PAGE 14 X pe13 2(60,3+ 11/2,3) 2(40,3-76,3) 2(XPs,,+ ye,,) 2(XPs,3-4R,3) 2(XPe, 5+ 4 PS13) 1/2 (K513 - 21/413) 1/2 (14,3 + 11/3,3) 1/2 (X5/3-4C/3) 1/2 (Yers + 4513) - XP5,3 × × × × × 6/2017 143,3 2187-X 2/07 -X pell) 2(18,, 18,,) -Xc" /2(xc,,-ms,,) 2(XP.11-4/21) 2(20511 + MR1) 1/2 (8511 + MCV) /2 (xc,,-4s,) 1/2 (Xs,, + ycn) X ps !! 5.75c. 1157 · (Ac 11 1137-127-115d7 X EQUATIONS AND OUTPUT FORMAT FOR IM-PLANE COMPONENTS 1/2(xcg+ 45s) 2(RP69+ 71/P89) 2(xe3+4Ps9) 2(x8,9-4Ps) 2(189-7489) 1/2 (LCg+ 11/29) 1/8 (659- 200) 1/2 (Xs, -ycs) 657-XC3 -X 59 -X /89 3752 X Pcs 4 62 6507-3xc2 1759 627 25.9 2 (68,+ 11/27) 2 (LRS+ MRS) 2 (King- MAS) 2 (xps 5 - 4Pes) 2(xps) + 4Per. 1/2 ((57 + 11/27) (2(X) 5 + 4Pss) (2(XPez- 4Psz) 1/2 (24-11/51) 1/2 (xc, - 4s,) 1/2 (xs, + 4c,) 0 162 X -Xc7 X Ps7 2.57 9757 287 -6867 GKCT -XPC7 -667 12 (1 (5+m) ss) 12(Xcs+4:s) 12 (ESS - 71/6S) 2(xps-mes) 1/2 (XSS-4cs) - XPss Xss CARCS -685 Xpes Xcs GYSS - 255 517 10cs -X pcs 2(fe3-11/53) 1/2 (Xc3-453) 1/2 (652+ 11/23) (22/16-2-21/53) 2(xp(3-4P3)) 2(183+11/23) 12 (XS3 + 4C3) 2(XPs3+4Pc3) X **※**57 Q xc3 XPSZ -6P63 6 Ps3 3763 £37 -יומסרים בייי Xpc MP YPC L p.s Z PS axc OKS Σ, 9 Y S 975

TABLE A-2 FORCES AND MOMENTS IN FIXED FRAME FOR A 4 BLADED ROTOR SYSTEM

EQUATIONS AND OUTPUT FORMAT FOR VERTICAL COMPONENTS

HARMONIC NO.→ FORCE ↓	2	3	4	5	8	12
T _C	T _C 2	T _{C3}	Tc4	T _{C5}	T _{C8}	T _C 1.2
Тs	T _{s2}	T _{s3}	T _{s4}	T _{s5}	T _{s8}	T _{s12}
Qc	Q _{C2}	Q _{c3}	Q _{C4}	Q _{C5}	Q _C 8	Q _{c12}
Q _s	Q _{s2}	Q _{s3}	Q _S 4	Q _{S5}	Q _s 8	Q _{s12}
ТРС	4TPc2	4T _{Pc3}	4TPc4	4T _{Pc5}	4TPC8	4T _{Pc12}
T _{Ps}	4T _{Ps2}	4T _{Ps3}	4TPs4	4TPs5	4Tps8	4T _{Ps12}
Q _P c	^{4Q} Pc2	^{4Q} Pc3	^{4Q} P _C 4	^{4Q} P _{c5}	^{4Q} Pc8	^{4Q} Pc12
Q _{Ps}	4Q _{Ps2}	4Q _{Ps3}	4Q _{Ps4}	40 _{Ps5}	4Q _{Ps8}	4Q _P s12
a _{TC}	a _{Tc2}	a _{Tc3}	a _{TC4}	a _{Tc5}	a _{Tc8}	a _{Tcl2}
a _T s	a _{Ts2}	a _T s3	a _T s4	a _T s5	a _T s8	a _T s12

DEFINITION OF SUBSCRIPTS

SUBSCR	IPT→	C2	C3	C4	C.5	C7	C8 -	C9	C11	C12	C12
i	→	3	4	5	6	8	9	10	12		14
SUBSCR	IPT+	S2	S 3	S 4	s 5	s7	S 8	s 9	Sll	S12	S13
<u> </u>	+	17	18	19	20	2.2	23	24	26	27	28

APPENDIX B - NASA AMES HUB LOADS TABULATED TEST RESULTS

The data reduction method and output format for the hub balance loads was described in Appendix A. Enclosed herein are the computer output tabulations for this data reduction. Listed below are equations to provide the total vibratory load, sine and cosine components, for the following:

4/REV LONGITUDINAL FORCE

$$F_{x4} = X + XP + AX$$

4/REV LATERAL FORCE

$$\mathbf{F}_{V4} = \mathbf{Y} + \mathbf{YP} + \mathbf{AY}$$

4/REV VERTICAL FORCE

$$F_{z,4} = T + TP + AT$$

4/REV PITCHING MOMENT

$$M_{y4} = M + MP$$

4/REV ROLLING MOMENT

$$M_{X4} = L + LP$$

4/REV TORQUE

$$Q_4 = Q + QP$$

2112 PHRSE II6 DYNAMIC DATA

	12	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000			
	æ	-23.466 -1.8646 -1.8646 -1.9372 -3.5338 -0.0543 -0.2440		Opto	
	•	5.1224 0.2850 1.7054 -0.1699 0.0071 0.0071		ORIGINAL PAGE OF POOR QUALIT	IS Y
		16.487 1.1077 1.1077 -26.717 -16.615 -0.777 -0.4836 -0.0232			
		59.177 1.6046 1.6917 37.742 22.596 1.1027 0.6577 0.5691			
	2	24.425 0.4375 0.4375 12.7413 12.644 0.6812 0.5408 0.5408			
		22 TS 25 TPC 25 TPC 7 CPS 7 CPS 7 CPS 7 CPS			
	13	200 20 20 20 20 20 20 20 20 20 20 20 20	0.0502 0.0502 0.0508 0.0508 0.0128 0.0128		
			0.2554 0.2554 0.2551 0.2554 0.0559 0.0559		
	σ	11. 20.040 10. 41.06 10. 41.06			
	7	44694444444444444444444444444444444444	0.5550 9.0759 0.0550 0.0550 0.0550 0.0550 0.0550 0.0550 0.0550		
1003	· v	m x N c a c u a a a	2.0011 2.0011 2.0011 0.0556 0.0556 0.0331 0.0331		
**************************************	, i 🙉	0.000000000000000000000000000000000000	13.223 13.223 13.223 13.223 13.223 13.223 13.223 13.223 13.223 13.223 13.223 13.223		
2.8			'		

	2003	
	A 44444600	
	1035 1037 1037 1037 1038 1031 1038 1031 1038	
m	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	
PAGE	20.945 2.8375- -0.9154 3.1917 -19.539 -2.5255 -0.5687 -0.0744	
#33	20.814 16.471 16.471 20.6149 29.309 77.758 0.8531 0.1660 0.2270	
FEB 759058	27.011 -40.325 2.6121 2.6121 5.3734 6.03984 0.2515 0.0110 0.5076	XTA .
13 F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	X DV
	13 6 1432 6 6357 6 6357 6 1432 0 1235 0 1256 0 1256	PRELLMITANY DATA
C-PRESSOUTO	11 8 8731 0 51756 0 51756 0 16771 3 07771 0 16771 0 18991 0 18991	PRE
10-01	9 2 200 3 3 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
s:	11.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	ORIGINAL PAGE OF POOR OTHER
1065	24. 4998 24. 160 24. 160 24. 160 25. 160 20. 160 20. 160 20. 170 20. 170 20	OF POOR QUALIT
245 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200-1-0-1-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-1-0-0-0-1-0-0-0-1-0-0-0-1-0-0-0-1-0-0-0-0-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	
151-727 FOL		

·. 	2.01:6	! ! !											حر
	m	er.	٠.	•	11	13	1	2		4		· c	12
	016	15.:47	3 7 € € € €	-21.5577	4366.6-	4.23.36	1	-4.17H5	39.521	-25,033	-U.7755	25.493	1-76-4-
	13. 1-	37.4.3	6/2017	-1-2971	-5.6.98		15	24.531	22.5-11	-23.644	44.74		11.40n
	-7-7243	-32013	-43.22	1 - 2071	-5.5090		č	7xx.0[-	38x0.0	-000 E	1.77.1		
	4.5.21.3	150, 47	1 2 6 P	-20.517	3.4455	0612.7	S.	6-1286	-7.9575	•	1.321		ا ا ا
	1044.	-1.35-4	-2.4034	_		71.8472	100	-11.057	8 7052		7.75.1		
	6164	1.7511	1.4730	\sim		2.0003		17.545	-15.751		-11.165		
	K - K	1167-1-	1.4448	. ^		-2.0463	نهن	-0.3405	0.2534	-0.2457	7.480.0	101335	(127.0)
	~ ~ 4 / 4 / 4	77 08 0	2.45:3	. 5		-C. h472		6.51: 7	-0.4545		-0.325€	1040.	/
	7 7 7	4414.0	C 5 3 1 0 0 0	7. 1001.		0.0915	ATC	0.3319	0.4551	4410.0-	0.0512	0.2135	-(-1171
	1.0356	3.47.6	2011	0.1154		0.0205	ATS	6.5759	0.216	-U.2453	50640	-U.Ochb.	0.117
7 7 7 7		246	-0.475n	451150=	(544)	5070-0-							
S 2 X ~ 1	11	** ** O*		-0.0754	0.0465	0.0415							
)_1 <u>~</u> 1	14 5-	2.7,10		0566.0	-1.0012	\$280°0=	:				!		
ر ا ا	7	\$ 3 ? · • T	11.25.11		.720.0-	-(1.44.76							
しょる いっ	7,	•		- 1-117	-0.6/20	9/550							
53-91	5.4027	2.791		1,000	2 hag • 1	5200.0-							
317 C	-C+3+5+			7/[-0-	*120°0-	0.0257							
Sx ? X	4115.34			510•0-	6 +80+0=	0.0536							
14 240	-101534	-0.3131			-U.0943		1		;				1
2 4 5	- U.3454			0/100-	6150.0	7420.0							

	•											
ā	1607 LASEN 1607	1.00.							i			
7.5	7:17											
	er.	\$	۴	11	13		~	E	. .	•	, cc	1.2
	22. 23.7 -31. 52.2 -22. 52.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.12.2 -23.		33 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	4.44.000000000000000000000000000000000	11 904 113 1004 113 1004 113 113 113 113 113 113 113 113 113 11	TT TO THE T	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.002 1.0155 1.0556 31.0556 31.0556 1.0139 -0.0139 -0.01205	2.0347 -2.5320 -3.5527 -3.5527 -0.2870 -0.2870 -0.1855 -0.1855	24.24.2 24.27.4 20.154.9 20.154.9 30.2111 00.1741 00.1745 00.1745	20.928 -12.10 -12.10 -12.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -13.10 -1	16.217 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 1

PRELIMENARY DATA

	*	6.3142 -13.5' 6' 6' 6' 6' 6' 6' 6' 6' 6' 6' 6' 6' 6'	c > ?	0.052 = 0.0110 0.1594 = 0.01470 0.1594 = 0.01470	• 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0		i	
	•	27.510 =127.45 5.170.=10.724 =1.1524.=1.1039		- ^ 1	e''81.44-'5			
	.				0.2352			:
	, m	26.579 26.579 -0.1501		0560.0 5654.0 9650.0	0•1550	! !		!
	~	28.931 40.570 -0.3922	3.6.4.4 -29.5cm 62.2ch	-(549 1-8107 0-5271	g (49°)			
	- P B	10 18 10	SS TPS SAT	0 d d	ATS			
	13	7.7564 5.5259	7.1554	C. 544 C. 5027 C. 5027		2000 C	1.0004 1.0004 1.0004	0.0587
	-	15.110	364 57 T-	*5.4.4.4			0.1712	-0.0457
; ; !	•	- 24 - 3 - 3 - 10 - 72 - 72 - 72 - 72 - 72 - 72 - 72 - 7	4171	12.17.3 14.17.3		2.77.22	3621	
	~	0 3 1 4 T		1/2/10		100 mm	•	0.1245
1001	ç	11.6 F 2. 2 C 9 O P		2 2 2 1 4 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4		1010 No.		-0.11107 0.2732 -0.11107-0.2732 -6.05390.5540
2001:360 1007	•	12.010	6 1 7 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	226516	-2-1473	2-14-23		-0-1110' -(-1110' -6-0559.
۲. در استان		2 S S S				ı		2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

13 FEH (2005)52 2.9550 TC -0.3073 22.659 -3.0268 UC -6.0741 U.760 2.9550 QS 2.4594 1.749 2.9550 QS 2.4594 1.749 0.0140 TPS 73.238 -4.336 0.01231 UPS -24.191 29.10 0.01231 UPS -0.7042 0.447 0.01331 UPS 2.1318 -0.120 0.0416 -0.1335 ATS 0.7919 0.328 0.0416 -0.0301 0.0416 -0.0301 0.0416 -0.0301 0.0416 -0.0301	13 FEH (2003) 2 15 41-317 2 15 41-317 2 0C -6.0741 0 0S 2.4594 1 TPC -24-191 2 TPS 73-248 -4 UPS -0.7042 0 UPS -0.7041 0 UPS -0.
2 3 3 3 4 1 2 5 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 6 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2 9 1 2	42.350 - 2 19.881 - 4 19.881 - 4 1.7451 0 1.2960 - 3 0.1994 0 0.3775 - 0 0.4283 - 0
	42.350 - 2 19.881 - 4 19.881 - 4 1.7451 0 1.2960 - 3 0.1994 0 0.3775 - 0 0.4283 - 0

	12	#54.112 8.615 33.164 23.35 4.4532 0.225 *1.3(33) 0.220		# 1			i
	'n	67-272 82-056 1-1529	2.3251	- 3- 1247 0-7334 0-6163			
	3 4	1.2649 -29.721 12.728 -33.947 0.7563 2.1341	4 400 10 10 10 10 10 10 10 10 10 10 10 10 1	0.0720 -0.51 0.0720 -0.30 0.1769 -0.51			
	2	12. an 7	11.29.11. 11.29.48 60.080	1.7453 C.5967 O.4942	1		;
	13	4 3 755 3 5054 3 5 5 54	-6.3755 05 -0.1239 TPC 0.2941 TPS 0.2951 090	0.1239	•	3 0.6769 2 -0.0416 5 0.0354 5 -0.0354	2 =0.0416
	11	509 -8.7337 124 -3.0713 124 -3.0713	547 -0-1250 547 -0-1250 179 0-3132	117 0 1250 547 0 1250 442 -0 0 1250 775 0 0 0 428	3.1939 -0.1943 3.1939 -0.1943 0.2349 -0.172	⇔ — ₩ ₩	1
	6 2		-23-225 34- -2-1307 -0-7 1-54-35 -0-4	• •			j l
75T-727 PH-1 TN-122.01511		34.26H 5.94()3	34.264. -3.0606 -1.5517	1.5917 -3.0506 0.6460 0.1503		0.5575 0.3479 0.0465	U-3426
27 PH-1	4.011111	XC = 19.592 XS 0.00 15.	48 19.592 17.5944 10.5544	1.	4 pc		5

PRELIGINARY DATA

Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro

Partition of the state of the s	m-cost-rom
Pilaterine (Section Control Co	12 =17-213 3-2319 0-1516 0-1516 0-1516 -0-1161 -0-1161 -0-159
a Adamson of the Adam	11.947 36.172 0.2644 11.752 11.763 0.31543 0.0451
Comments of the Comments of th	. 663 - 427 3774 1782 5317 5317 3300 22936
p interesting	2E 702 9948 948 3991 1112 9927 2431
	1: 1 1 1 1 1
B. Commencer of S. Commencer of S. Commencer of St. Comme	333 336-101 43.686 -4.3062 0.1332 11.930 11.930 0.5443 0.5027 0.4198
The state of the s	2 2 84.496 30.110 0.4961 0.6494 0.6494 0.6494 0.6494 0.4381 0.4381
A Transaction of the state of t	13 FE 15 00 15 00 17 00 10 00
	13 2.0146 2.0146 -1.7259 0.2376 0.2376 0.0216 0.0216 0.0216 0.0216 0.0222 0.0326 0.0534 0.0534 0.0534
	40.552 5.253 5.253 40.552 6.9145 0.3760 0.3760 0.3760 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2102 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103 0.2103
	163 163 163 163 163 163 164 164 164 164 164 164 164 164 164 164
The state of the s	m communa v v v v v v v v v v v v v v v v v v v
	12.2.2.01 (0/4
	ברא בי
The second secon	### 127 PH=1 #### 12
	2
V. J. J.	83

PRELINGNARY PATA

ie 10	6.624 130.80 -47.378 -18.722 4587 -44.049 -42.595 -11.467 10382 1.5541 2.0912 -0.1721 10507 -0.5647 1.5645 0.1183 46.65 15.504 -0.3904 -11.963 5.498 3.7852 23.261 5.0509 1976 0.1103 0.6771 0.1470 1154 0.9042 0.0679 0.024 1.2819 -0.7944 -0.2001 0.2245	
833 PAGE	81.144 4 54.203 0 0.7694 0 11.5294 0 11.298 0 0.4500 0 0.4500 0	i i
13 FEB 75a05133	2 10 -55-632 15 -35-427 00 2-2956 00 2-2956 00 -225-43 173-99 00 -225-43 173-99 00 -225-43 173-99 00 -225-43 173-99 00 -225-43 173-99 00 -225-43 173-99 00 -6-5619 00 -6-5619 00 -6-5619 00 -6-5619 00 -6-5619	
	13 10 - 310 - 34 - 771 39 - 771 16 - 310 0 - 23 35 0 - 23 35 0 - 66 77 0 - 0 175 0 - 0 175	
In-PHESSUUTO	9 11 14-13 -74-514 3-340 -56-624 3-340 -56-624 14-13 74-514 1-52 (-1455 4656 -0.1544 4656 -0.1544 4656 -0.1544 -5403 (-1455 -2933 -1-3194 -5403 (-2465 -2538 1-3194 -1324 1-2315 -1324 -6.4193 -1364 -0.4819 -1364 -0.4819	,
51:15	197-36 64-648 64-648 197-36 197-36 197-36 197-36 19-5956 19-5956 19-5956 19-5951 19-5951 19-5951 19-5953 19-5953 19-5953 19-5953 19-69660 19-69660 19-69660 19-69660 19-69660	
TST-727 PH-1 T4-122.01715 RUM: SEQ 1665	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•] (00000.
RUN: SEQ 2-01:15	W 00 000 mm 20 mm 2 4 4 0 0 0 3	• • •

PRELIMINARY DATA

1 stances

Facilities (
- Against		,	,122	0.2500	4467	1.45°	7550	1600	و المراجعة				:							
- Copyright or all								3941 0	s _i											
E Company (1	_	13 -176.43			<u>، م</u>	10					!							
Policy Property (Control of the Control of the Cont	11				m :	\$	2	10	5				1							
Proceedings	PAGE		* •33.093	-31-361	1.8429	-10-134 -177-91	-2.23H	-0.6162	<u>=</u> 0.4551							!				
Browning of the state of the st	33 (645	51.631	6159	134 070	4663	6760	7321								A			
Freeze de la companya	FER 75605133			=143.62		•	•										DATA DATA	 		
Protection and and and and and and and and and an	13 FER			15 -14			i									; ; ;	NAR			
A design				i						1.2475	4000	\$6£3	* 25.00 * CY050 * CY050	0133	0.0133		/ <u>k1 13 04</u>	RELIM		
A ALACO COMPANY	UT0		9	, 25 , 7 , 7	F 5 5 5 5	363 O.	742	1.3 7.15 1.	151 mi	1012	44 X 13.	348 3.	0 25		Ç,)	F	24		
a record of	ID-PPESSOUTO		<u>س</u> ک						T	1	ī	-	<u> </u>		1	í		i i		
e para de la casa de l	16		6 7 7 24	2011	5- 695-19-	169.0-	151.0	169.0-	0.155	2.0578	110.6	9.510	-3-136	615.0	-0.913			: : : :		
			٦	07-1	7.4	÷ .	7115	2.512H	2649	1333	671.0	or i	5-125	5658	6599	. 1				
	151-727 PM-1 TM-122.01:16			0	17.593 -	. 4447	5637.	.7644.	45.56	7.66	4.1.7	3.411	•9175.• •3556	36.85	66000	9620				
	1 14-12 E4 /0			. 12 . 12 . 21	F		ئے ۔	· ; ;			٠,٠			.72	572.	7				
	727 PHE	2.01:16	ני יו		25	-2.7		20		n O	₹ ¦	. 	7 1			•				
e e e e e e e e e e e e e e e e e e e	151		;	ر بر د بر		\ \(\frac{1}{2}\)		<u>م</u> کر می مو	ж. 3	0 54 A 27	30	d F		X TO Y	IN AY	9				

		RUP: 5EU 1020	070											
•		2.01:20												
'			- 2	7	6	11	13	1	2	. 6	4		6	12
	,	-4.9477.	1648.8	-27.095	-46.595	-44.203	=16.055	2	-79.573	43,916	-61.544	-3.2449	22,003	-3.635
•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	29-612	8-1017	-21.458	45.647	19.570	-11.796	LS	34.790	64.019	14.862.	14.862. 10.814	-39.72H	30 E
) (>	24.612	5101	-21.458	148.841	19.570	11.796)	-4.2343	2.7301	3.5717.	11250	0.3636	600.0
		A. 4577.	5.5421	27.195	-40.595	44.203		SO	-0.5430	-5-3306	0.5720	0.13.3	1.052	
		0.5924	7204-1	=	1.5057	-0.0714		TPC	-47.120	61.542	-24.33]	¥4.1.4.	1607.4-	0.00
	7 - 2	•	13.5416	6606 O - 1	0.3047	-0-1332		TPS	80.350	-12.621	1.7944	591-11	3.434	707.1
	7 6	- [0.5415	8606.0	-0.3447	-0.1 H32		OPC	-1-3716	1.7914	-0.7160	0646.0-	サンマン・コー	
	3	10	1.3557	i	1.2497	0.0713		SdO	2.3340	-0.3676	U.0522	-0-325v	0.1122	0000
	X	î	0.0152		•	0.1216		ATC	-0.829B	0.5137	-0.1733	0240°C	6741.0	
	SCK O	, PF	1-01-77		•	2110.0-		ATS	0.4295	0.7602	0.0512	0.650.0	-0-1/21	1100
	11 45.0	, M	1.0677			1113.0-								
	SJA ZI	1.66193	-0.0152		-0.7458	-0-1215	-0-1520							
	ין רף	•	4.75.64	0.6400	-11.5729	-9-17ed		1						
	24. LPS	[ulycel-	21,201	4-1778	0.5551								
) 4FC	•	1.9614	_	-4.1775	0.5551								
	50 % DI	11.4443	4 - 7550	•	-0.5/29	0.1788		-			1	1		
	JAKC (-0.0917	-0.07157		=(4149	-0.3967	-0-1391							
	SXV A	0.1938.	0.0545	ç	0.4227	0.2093								
	19 AYC	9.1935	-0.0505.	50-21A7	-0-4227	0.2093								
	A AYS	0.0917	-0.0707	1 . 0.2344	-i)-4148	0.3967	-0-1391							

PRELIGINARY DATA

To the same of

L Additional Control of the Control					1
		12	1.4746 1.4746 -1.1173 -0.3323 14.34 0.1554 0.1554		
			24.5555 0.2745 7.3417 29.043 0.2341 0.7351 0.7334		
	3	5	-2.7930 -63.926 -1.1301 -1.6476 -1.6476 -0.3415 0.4199 0.4199		
	PAGE 1	•	12.476 -37.551 0.1259 -3.5003 -2.04.96 -5.96+96 -5.96+96 -0.2902 0.5657		
1	133	~	129.74 99.455 0.3774 0.03774 0.0391 86.331 -25.567 -0.7440 0.9359		PRELIMINARY DATA
The second of	FEB 75#11513	~	-97.511 -7.6730 -6.0518 -1.0941 -170.93 -223.04 -4.9755 -6.4925 0.9322 0.6784		IMINAF
Accessory (13 F		TO CO		PREI
Propries		13	52.191 56.783 56.783 56.783 0.5278 0.0906 0.5278 0.0551 0.7542	10.10.10.10.10.10.10.10.10.10.10.10.10.1	
	ESSÚJTA	11	17.709 72.716 72.716 17.709 1.6304 1.6304 1.6320 0.6941 0.6941	3-1-473 3-1-473 0-11-07 0-6569 0-6569	
Processing to the second secon	74-01	6		2.5. T. 6.7.7.6	
Construction of the constr	121		22.30 39.83 39.83 52.05 62.05 62.05 62.05 62.05 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00 63.00	0.255 0.255 0.255 0.255 0.255 0.255	
	14-12-2-0112 (OZI		26.563 F9.766 F9.766 -0.5939 -1.5275 -1.5275 -0.7349 -0.7349 -0.7349 -0.7349 -0.7349	5-4344 5-4344 0-7632 0-1619 0-1619 0-1619	
Parameter 4	1 9	₹ ₹	27.756 27.756 17.756 17.756 17.757 17.757 17.757 17.757 17.757 17.757 17.757 17.757 17.757 17.757	2.00.00.00.00.00.00.00.00.00.00.00.00.00	ORIGINAL PAGE 8
	1	2.0		V C V C V C V C V C V C V C V C V C V C	OF POOR QUALITY
	ŧ	1	87		

	5 8 12 114,45 -15,193 14,629 130,67 -244,04 -63,111 4,1245 1,3426 1,1553 -36,512 -24,641 0,1329 12,540 14,489 -16,077 2,1202 0,4217 6,522 0,9445 -0,7724 0,1119 0,9493 -1,6510 0,7357
PAGE 14	111-499 77-253 0-5369 0-1765 -136-53 -73-039 -5-3219 -0-1426 -0-1426 -0-1426
13 FEB 75@05133	2 3 -62-659 151-52 -199-78 91-994 2-0122 -1-4393 -2-5541 -7-1363 -2-5541 -7-1363 -2-5541 -7-1365 -2-5541 -7-1365 -2-5541 -7-1365 -2-5541 -7-1365 -2-5541 -7-1365 -2-5549 1-6449 -2-6549 1-6449
	11 13 72.537 59.240 TC 72.537 59.240 TS 95.946 56.346 QC 72.537 59.240 TS 11.729 -0.1748 QC 10.4520 0.1748 QC 11.529 -0.1748 QC 11.548 -0.2449 ATS 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5413 11.648 6.5613
10-PRESSOUTO	11.561 11.561 11.562 1.5572 0.0405 1.5563 1.5563 0.5914 5.6174 0.1750
1022	25.483 383. 25.483 383. 25.483 383. 25.483 383. 25.483 383. 25.483 20. 10.2663 20. 20.425 19. 20.425 19. 20.425 19. 20.425 19. 20.425 19. 20.566 20. 20.2566 20.
151-727 PH-1 TN-1,22.01:22	2 XC -52-218 3 XC -52-218 4 XS 60-234 5 YC 60-234 6 XS 60-234 6 XS 60-234 7 YS 52-218 7 YS 60-234 8 XS 60-234 1 YS 60-234 1 YS 60-3253 1 YS 60-32
1 !	88

PRELIMINARY DATA

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
P. Practices	12 = 0.2739 = 5.5431 = 0.3641 = 0.3641 = 0.6655 = 0.6556 = 0.6556 = 0.6556 = 0.6556
Total State of the	3.1836 2.0186 2.0186 2.0186 2.0186 2.0281 2.0281 2.03795 2.0281
	5 • 6786 • 1350 • 1350 • 1570 • 1591 • 1591 • 1255 • 1255
The state of the s	4735 -140 -140 -140 -140 -140 -140 -140 -140
The state of the s	4 5 10 10 10 00 00 00 00 00 00 00 00 00 00
	5:33 3
	13 FE6 75-05133 7C -25-112 -16-574 15 -30-12- 20-807 QC -3-2924 4-9751 US -0.82924 4-9751 US -0.82924 25-547 1PC 23-660 25-547 1PC 23-660 25-547 1PC 23-660 25-547 1PC -0.00000000000000000000000000000000000
	13 T 15 C 15
Transfer of the state of the st	1. 5558 4. 2558 4. 2558 4. 2558 4. 2558 4. 2558 4. 2558 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568 6. 2568
· make in	11 14-156 -4-159-1-156 -4-159-1-156 -0-5449 6-156-1-156 -0-6-1-156 -0-6-1-156 -0-6-1-156 -0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
**************************************	10=P 10=P 10=P 10=P 10=P 10=P 10=P 10=P
	178 178 177 177 177 177 177 177 177 177
with the state of	2.012. 2.7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
Principal Control	18-242 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-747 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-74 19-7
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	A A A A A A A A A A A A A A A A A A A
-	いないないないないまではいるではなる
U	89

	12	4,1501	23.106	0.1444	25.521	0.7429	0,2343				
	: 60	200	!	0.1922	19.539	0.5537	-0.3539				
	ی	•	7.367	1148	2.468	.2362	.1123			:	
			49.861. 4 7 =33.751. 5	-0.0221	-167.94	-1.6076	0.1037			!	
		-	18.09	2.291 1. F5H	39.01	1.135	0.139			: !	
		~	-21.P57 -63.408	-2.0603	-297.47 88.790	-8-65F9 2-5845	0.04466				
	; •		•				ATC		!		i !
	;	13	-5-1764	-64-117	0.8134	6470.0-	20.00.00	\$657.00 1.538	-7-1006 6-5574	-6.5574 -7.1306 -0.0271	0.53n6 -0.5646 -0.0271
			-105.36	105.35	1.9520	5009-1-	0.0125	C. 55.00 C.	-2.3154	-1-3836 2-3154 -0-9697	0.4204
		. 6	122-37	22.526		1.550	100 A P	7690	-2-1351 -2-1351	.76UF -1351	0.3710
971		1	-74.557	125.71	1.5371	0.3578	-1-6371	-1-046	0.0550	0.0554	-1-1394 -1-1394 0-6-057
8201		· ·	30186.	4 6		2.2445		3.70.54	17-214	7.21	0.0980
151-727 PH-1 TV-12.02.01126 MUNISEG 1028	9711		-0.2454.	2.1.1 2.171	- 5.534 3	-0.4352	200373	4.5047	-1-7424	23.636	0.6936
151-127 WU	7.2	!	į	4 × × ×	ני א		- S	K XFS		i S S S S S S	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

-

	ر د اه	2	(r -	ء ما	(3)		1				1	!
12	• ; • •	j.			1							-
L	175.64 56.64 1.2074	5.4734	42.845	1.2476	-1-005							
•	4.146 5 5.439 1.2226	. 12.71			.0891							-
i '	.368; 1 0526 1 6743; -0	2246 1	7.67.0	3335 -	.55				1			:
4	.92 63 205 69 131 -0	-1- 024 -24 -64	96 14	168	- S				1			
	, .								ŧ		1	:
~	156.63	5.2737	-221.44	-6.22.a-	0.1293	1						,
	1											
13	71.571	71.571	0.2604	0.2594	104940	1.1401	2.4672	3,65,4	2,0012		0.4022	
11	. R311	1154.	.5212	4533 5113	1000 1000 1000 1000 1000	5583	3050°	, 1532 , 1532	\$665°	1.0233 J.8236	5.4236 5.0259	
	A X 2	ر د د د د	333	710	1	255 A		371 371	,>t.	ひんさん	. B. 2	
>	1 1	- r.	~	7	77	v ~: c	7	e 6	ī	? :	.~?	
-	124.	1335 1256	77.00	C 3 4	٠.		· ~	-3-	, , ,	, i	73	
27.	412	434	1.7541		0.756)		34.714	20.912	30.14	0.00.05 0.00.05	0,000 0,000 0,000 0,000	
أو			~ 5	55.	•	•		•	. :_		2 2	J 1
10N: SE 301: 29	,		•	0			, , , , , , , , , , , , , , , , , , ,			3		
^	1 X X Y X X X X X X X X X X X X X X X X	% A		ر ا بر ا ا بر	ر الا الا الا الا	S X PC	2 4 4 5	5013	5 4 4 5 4 0	JAK (W W W W W W W W W W W W W W W W W W W	3
1 '	١		•	1	ı			•				
	2.01129 1029 2.01129 5 7 4 11 13 2 3 4 5	2.01129 2.01129 2.01129 3 5 7 9 11 13 2 3 4 5 5 6 5.0129 2.01129 2.01129 2.01129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.012	2.01129 2.01129 2.01129 2.01129 3. 5. 7. 9. 11 13 2. 3. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	XC = 9.6643 = 7.6125 126.35 = 312.61 6.8311 71.571 TC 156.63 = 58.492 63.8681 14.046 = 175.64 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1.8574 1	XUNISEO (029) RUNISEO (029) 10201629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.01629 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.016292 2.	#UNISED	#UNISED (024) 2.01129 2.01129 2.01129 2.01129 2.01129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129 2.0129	RUNISEO (07/2) #UNISEO (029 PROMISEO (029 PROMISE	2.01129 RUWISEO (024) RUWISEO (024) RUWISEO (024) RUMISEO (024	#UNISED (024) *** Series 11	NUMISEO	

Ü

	11.266 -4.8141 10.271 10.273 4.0560 0.0541 0.117 0.117 0.150	
	8	
	5 143 0542 17 0 2745 16 -2 2150 16 -71 909 14 -71 909 14 -2 1942 15 0 1085 14 0 0549	
	58 -93.204 42 -110.47 53 -110.64 33 -8.6036 347 -15.314 65 11.232 93 -0.4894 249 0.3269 119 -0.6199 207 -0.6274	1
	2 3 -11-330 -117-58 3-7054 -5-9142 -2-9054 -2-4524 -2-3181 3-2437 -71-318 3-2437 -71-318 2-0477 13-491 21-466 -2-0757 2-5793 -0-356 -1-1919 -0-356 -1-1919	
,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		7 -0-1×30 7 -0-2039 7 -0-1×30
		•
		0.00
2.01130		0-1405 -0-1705 0-1405 -0-1400 0-1405 -0-1400
157=727 Pn-1 Td-122.01130 RUNISEU 1036 2.01130	A SAN TO THE WIND WHITE	
27 PH-1 RUN: SEU 2.01:30	M	- 306

PRELININARY DATA

4011564 1031	1031			:								
11:3[
· ·	•	~	7	=======================================	13	:	, ~		*	v	SC .	15
•						•		92 661-	123.76	154.45	-3.7313	3.1545
47.794	23.153	360.12	-5.3951	11.442	-5-2911	; <u>د</u> ا –	7.50.7	10000T	Ī		7576.25	*45.C.3
3.7		K7-19/C	2.2135	0.5470	11.537	j,	-24.50	37.6	2 - 2 - 2	*****	, -	4507.0
71.0		36.70	22.21.35	R. 5.37	-11.637	ပ္	-1.1332	2.4273	-11.44.y	ري	-	77 ()
,1,016		400		-11.467	116775	Ş	1.0284	-2.1n74	Mox - T	127.0	-	
-42.24	53.103	-21.70	1646.60	7		101		74.633	-24.443	•50.912	•	3.36.0
5.1323	. C	•	1.5122	* F 1 T * C *) ((464 37	-251.72	50.177	13.425	3032
30.0	. 7, 1745	96.40	3	-2.4.150	\$ 107°C		1.7063			1 . 4 . 4 .		
2	777	• -	グトの	-2.97.511	V240.01	0	-3.7454	2.11.53				
				0.1016	1/01/11	SdO	2.4401	-2.1476				- 4 - 4 - 1
-526 969	S 100.00		•		46.7.	ATC	0-1042	-1.3239		Ċ	•	10110
. 3550.0		2607.1					6406	0.6626		-3.4747	0.1135	L 24.30 F .
0.5444		501000		140000	**************************************	1	3 3					
. 54.46.	6.5446-40.45442.2148	-2.01.1	77.0	0.3547	0.2649							
. 5666	41(1)4 9	51.01.		9.0539	92.7.0							
- 26 - 75-	6 5 1 7		5. 7.6	10000	1,.2,.1-				!	1		
41.4.5	4,24,0116	-	,	at: - 1: 14	* 151.19							
1967.0	24.534	11.7%	•		0.7584							
47 7 CC	27.14 4-	٠.	_		107/11-							
		` =	192000	0.1139	0.0253							
	10 17 E			0.0553	0.0959							
57.4	100 M			0.0553	6560.0-	,	:	:				
	- CCUC 0 - CCUC -		10.00	-0-1139	0.0263							

13 FEB 75005133

In-PRESSUATO T

151-727 Pr-1 TV-12..2.01:31

	٢		101440 104141 40.0665 10.557	0	3 2						
	ر م	-68.75% -68.860 -2.082	-6.5176	-0.0420	0568.0-	9566.0 -					
	4	23.337 -16.360 -3.0319	2.3983 =0. =32.233 59	-0.9382	1.9790	-0.3551					
	132	8-6139 TS -4-2218 8-6139 TS -4-24-59	190	TPS OPC	CPS ATC	ATS	0.4398	1,3559	7.2644	0.1214	0-1023
	11	73 23.548	23.548	1 10013	1 -1.6957	1.7105	0.0713	2-9335 -	: ۱۰	0.1153	94-0-1606
	6	11.4563	11.4434	1.44133	46%4.00	20102	0.66125	1061-1	101501 -10122	0.0146	7 -0-0140 0-29
KUMISEQ 1033	3	•	-3x-589 45-596 23-405 19-418 23-405 50-608		16.1.5. E010.0	24.21.0 0.5040		3.1		100 C	-0.3530 - 0.5101 -0.0845 - 0.3062
KI 2.6		- 1	ر ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲ ۲	- N - L - L - L	2 + S	2 x 2 y x 2 y x x y x x x x x x x x x x	12 YFS			O AXC	14 AYC

PRELIMINARY DATA

Ī		12	-3.8273	10.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6.2423	-0. B.f.	0.1-63	-0.00 0.00 0.00	-0.0241								
I		30	13.236	0.4997	2.65.34	10.744	0.0774	0-1147	0.0561								
I T	77	: : •	25.553 -41.137			41.075											
ı I	746E	4	-104.21. 6.2934.	-10.865	4.0073	-15.292	-0.5145	. Verse o .	0.0159								
1	133	.m	-80.812 44.953	3.0034	P165.0-	-51,706	2.0080	-1.5051	0.8444					!			
T	FEB 7540513	2	15.954	-1.5215	*0°5604	59,043	-3.3371	1.7193	-0.2221	• ! !							
The state of the s	13 6	!	7 1 2	Ú	Sof	1 to 1	OPC	SAC	A - A								
Transcard			-22.148 24.351	24.951	-22-143	0.75.0	-(-1434	0.2056	100100	9710.0	6.1681	\$25.4°C	4268.0	0.15	0.1538	-0-1538	-0.1454
	ID-PRESSIUTU		5.2788 -	125.08	5.27kg	.4(30	25.5.2	115 1 7 .	7511.	2460.4	0.1142	. 03311 . 3311	0.3311	7.440	0.3136	0.3136	0.0857
	10-PRE	:	072	2.260	22000	100g	25.93	1644	•1257 •174	4173	1269	7361	2391	CC11().	.1241 .2259	•2559	•1341
		5	~ ~		7	77	-)	اب ا	75	7	7	t t	4.	3 3		•	<u>ج</u> ا
	11:34	.~							5/201 15/7		-1.3.12		7.17	-2.12	0.1016	0.15	0.01
	1634	; • • •	16.192	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	51.4	0.0000 x	\$065 · [9: 11,3454	4 0034 0 058	95.1	4,0034	3-3508 14-603	464.61	.	. 0.2864.		0•1310
	151-727 PH-1 T-122.01:34 RUSSES 1634	m	45.411.	57.155	46.411	5.0119.		-5.0119	\$ 10 to	5.375.4	0.2454.		1.229	23.327	0.4603	.4603	, Octo
	727-12 UB V-3	:	ر × ×	ر د >		ر ا	ر - ا	30.0	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		YPS) (1) (1)	ָ בְּיִי בְּיִ	535	17 LXC	-	20 475
	<u>-</u>	ł	-,`	7	. ,	w '	~ `	•			-	- ,		-		_	1

PRELIMINARY DATA

ORIGINAL PAGE IS OF POOR QUALITY

3 5 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9						
2.2790. 14.567. 44.702 8.6616 29.042 50.024 TC =37.582 =147.70 1C1.55 53.743 =45.247 =69.629 =34.994 =13.693	11 13	2	6	5 7	Œ	12
101-55 53-743 -45-247 -69-720 -34-894 -13-693 TS -14-935 -44-507 101-55 53-743 -45-247 -69-720 -34-894 -13-693 UC -3-7484 -1-5818 101-65 -53-745 -1-5818 UC -3-7484 -1-5818 UC -3-7484 -1-5818 101-65 -53-745 -1-5818 UC -3-7484 -1-5818 UC -3-748 -1-5818 UC -3-644 -6-6452 UC -3-6444 UC -3-6	04 640.86	16 -37,582	-147.70	-75.423	63.769 30.556	~
101-55 -53-743 -45-247 69-820 -34-894 13-693 0C -3-7484 -1-5818 101-65 -53-743 -45-247 69-820 -34-894 13-693 0C -3-7484 -1-5818 101-65 12-27-09 14-2 50-024 0S -3-6444 -6-4528 3-0.074 0S -3-6444 -6-4828 3-4520 -1-1130 1-8545 0PC -4-72-40 2-9637 2-72-6-778 1-9345 -3-4520 -1-1130 1-8545 0PC -4-72-40 2-9637 0S -3-6444 -6-2177 1-9345 -1-5444 -6-234-1-5448 1-5345 0-6-452 -0-46-49 0S -3-6-49 0S -3	36 X 34	15 -18.935	-44.507	-61.189.		660-12-
1916.9 2.2749 14.567 3.644.702 8.6515 8.6917 2.7256 2.7256 2.7778 1.9345 1.1546 0.6775 0.0941 170 2.7256 2.7256 2.1778 1.9345 3.4620 -1.1130 1.8545 0.0941 170 2.7256 2.1778 1.9345 3.4620 -1.1130 1.8545 0.0941 1.8545 1.1544 0.6775 0.0941 1.8545 1.1544 0.6775 0.0941 1.8545 1.1544 0.6775 0.0941 1.8545 1.1544 0.6775 0.6775 0.6779 0.6735 1.1544 0.6735 1.1544 0.6735 1.1544 0.6735 1.1544 0.6735 1.1544 0.6735 1.1544 0.6735 1.1544 0.6735 1.1544 0.6735 0.1837 1.1544 0.1837 1.1834 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838 0.1838	468.44	JC -3.7484	-1.5818	-14.624.		(
2.7256.2.1778 1.9345 3.4620 1.1130 1.6545 TPS 6.3601 -0.5317 2.7256.2.1778 1.9345 3.4620 1.1130 1.6545 TPS 6.3601 -0.5317 2.7256.2.1778 1.9345 3.4620 1.1130 1.6545 TPS 6.3601 -0.5317 2.7256.2.1778 1.9345 3.4620 1.1130 1.8545 OPC 6.7240 2.9637 2.7256.2.1778 1.9345 3.4620 1.1130 1.8545 OPC 6.7240 2.9637 3.5619 1.63712 6.6452 6.06775 0.2345 0.2102 ATC 6.05735 1.5448 4.8722 3.3419 1.6346 6.6779 0.2329 6.0610 ATS 6.02735 1.5448 6.6452 6.0610 ATS 6.02735 1.6489 1.6346 6.6779 0.2329 6.0610 ATS 6.01293 6.00805 6.6234 11.546.6.53499 2.5427 6.05942 6.05495 6.05496 2.5627 6.05496 6.05495 6.05496 6.05735 6.05496 6.05735 6.05735 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.05832 6.0583	-29.042	SO	-0.4628	-3.0620.		
2.7256.221778 1.9345 3.4620 11130 1.6545 TPS -6.3801 -0.5317 2.7256.221778 1.9345 3.4620 11130 1.6545 OPC -4.7240 2.9637 2.7256.221778 1.9345 3.4620 11130 1.6545 OPC -4.7240 2.9637 2.97256.21778 1.9345 3.4620 11130 1.6545 OPC -4.7240 2.9637 3.9617 0.2349 0.2102 ATC -0.5735 -1.5448 4.8782 -3.4819 1.6346 0.6779 0.2329 -0.0610 ATS -0.1293 -0.0805 4.8782 -3.4819 1.6346 0.6779 0.2329 0.0610 ATS -0.1293 -0.0805 4.8782 -3.4819 1.6346 0.6779 0.2329 0.0610 ATS -0.1293 -0.0805 1.6426 11.546 -5.3459 -2.5527 -0.5942 -0.6932 1.6439 0.3995 -2.5627 0.5942 -0.6632 1.6439 0.3995 -2.5627 0.5942 -0.6632 1.6439 0.3995 -2.5627 0.5942 -0.6632 1.6439 0.3995 -2.5627 0.5937 -0.1323	0.6775	TPC	101.82	-47.053b]		-
2.7254. 2.1778 1.9345 -3.4520 -1.1130 1.8545 0PC -4.7240 2.9637 -3.6724. 2.1778 1.9345 -3.4520 -1.1130 1.8545 0PC -4.7240 2.9637 -3.6714 -1.544 -0.2345 0.6941 GPS -0.1857 -0.0155 -3.5519 1.5345 -1.5444 -0.2345 0.0610 ATS -0.5735 -1.5448 -0.2345 0.0610 ATS -0.1293 -0.0805 4.3422 -3.3419 1.5345 0.6779 0.2345 0.0610 ATS -0.1293 -0.0805 3.9419 1.545 -0.2444 0.2345 0.0610 ATS -0.1293 -0.0805 -14.234 11.546 -5.3459 -2.5527 -0.5942 -0.6832 -0.6832 -0.6832 -0.6832 -0.6832 -0.6832 -0.5945 0.3799 -0.3799 0.3799 -0.3799 0.3799 -0.3799 -0.3799 -0.3799 -0.3799 -0.3799 -0.3799	-1.1130	TPS	-0.5317	-27,116.		
25.50 - 0.1857 - 0.1857 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.0155 - 0.01	-1.1130	OPC	2.9637	-1.3696.	-1.7H75 0.2205	
\$\begin{align*} \begin{align*} \begi	57.10.0-	CPS	-0.0155	-0.7893·		•
4.8582 13819 1-5345 -0.6779 0.2329 -0.0610 ATS -0.1293 -0.0805 4.8582 -3.3419 1-5345 0.6779 0.2329 0.0610 3.9419 1.8712 0.6432 -0.2444 0.23340 0.05162 3.9419 1.8712 0.6432 -0.2444 0.23340 0.0610 -27.031 -14.744 -6.2141 2.3794 -1.4905 0.6496 -27.031 14.744 -6.2141 2.3794 -1.4905 0.6496 14.234 11.544 6.2191 -2.3794 -1.4905 0.6496 -0.1293 0.1534 0.3396 0.0439 0.2275 0.3799	-0.2345	ATC	-1.5448	-0.4393·		; د
4.4P223.3H19 1.5346 0.6779 0.2328 3.9E19 1.8712 0.6452 -0.2444 0.2346 -14.234 11.5465.9459 -2.5527 -0.5947 -27.031 -14.7A4 -6.2191 -2.3794 -1.4905 -27.031 11.546 5.9959 -2.5627 0.5942 14.234 11.546 5.9959 -2.5627 0.5942 -0.1533 0.1534 0.3996 0.4439 0.2273	0.2329	ATS	-0.0805	-0.4037		
3.9819 1.8712 0.6952 -0.2444 0.2346 -16.234 11.5465.9959 -2.5527 -0.5947 -27.091 -14.784 -6.2191 -2.3794 -1.4905 -27.091 -14.784 -6.2191 -2.3798 -1.4905 14.234 -11.546 5.9959 -2.5627 0.5942 0.3959 0.4939 0.2275 0.5946 0.3352 -0.5818 -0.2587	0.2323	_				
-14.234. 11.5445.4459 -2.5527 -0.5947 -27.031 -14.744 -6.2141 2.4744 -1.4903 -27.031 -14.784 -6.2191 -2.8798 -1.4905 14.234 -11.545 5.9959 -2.5627 0.5942 -0.5946 0.4253 -0.3362 -0.5818 -0.2273	0.2346	•				
-27.001 - 14.744 - 6.2141 2.3794 - 1.4905 - 27.001 - 14.784 - 6.2191 - 2.3798 - 1.4905 14.234 - 11.546 5.9959 - 2.5627 0.5942 - 0.533 - 0.1439 0.2275 0.5946 0.3362 - 0.5818 - 0.2587	-0.5942					
-27.031- 14.784 -6.2171 -2.3793 -1.4903 14.234- 11.545 5.9959 -2.5627 0.5942 -0.1533- 0.1534 0.3696 0.0439 0.2275 0.5946- 0.4250 -0.3362 -0.5818 -0.2587	C(167.1-	•				
14,234, 11,545 5,9959 =2,557 0,5942 =0.533 0,5942 =0.533 0,5946 0,5946 0,5946 0,5946 0,5946 0,5946 0,5948 =0.2587	-1.4905	0				
_(0_1593 - U_1534 - U_3696 - U_4439 - U_2279 - U_22781 - U_5646 - U_4550 - U_3362 - U_5818 - U_2587	6.5942	2		1	!	
0.5946. 0.4253 =0.3362 =0.5818 =0.2587 =0.	(1.22.15	.				
	-0-2587 -0.					
0.5946 -0.4280 -0.3362 0.5818 -0.2587 0.	-0.2587 0.1		1			

2 Distance of the Control of the Con					
in the second of		20.545 20.545 10.0160	5.3-32 -1.3537 -1.3537 -0.1354 -0.1762 -0.221		
No control of the con		6082 -2 9111 -6 2119 U	0.6518 -1.7286 -1.7286 -1.7286 -0.6568 -0.6568 -0.6735 -0.6738		
And the second s		760 4 8 8 4 7 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1158 - 0 655 - 2 124 - 1 33 - 2 3 - 2 5 - 2 6 - 2 6 - 2 6 - 2 6 - 2 6 - 2 6 - 3 6 -		
	53	2 -20. 11 - 36. 13 - 1.4	10 - 0 - 3152 11 - 6 - 1745 11 - 1 - 0350 12 - 0 - 1379 12 - 0 - 1476		:
Two or the	PAGE	i	11.5255 -63.934 11.431 0.3327 0.6492		V.T.
E district	33	34.971_ 15.460_ -3.5232	4.66455 -46.407 -39.576 -1.1762 -1.1507 0.6126 0.2416		AARY 1
Topico de la constante de la c	FEH 75805:3	2 50.526 41.199 2.3674	15.1215 98.625 6.4507 2.4766 0.9286		PRELIMINARY
	13 FEH	ļ	PACCHT		PR
		13 [4.064 24.357	14.054 0.03767 0.03767 0.0333 0.0347 0.0333 0.16133	0.0511 0.0511 0.0511 0.1515 0.2370 0.2370 0.2370	
Constant	SSudTu	942 626 528	25 C C C C C C C C C C C C C C C C C C C	.3568 .3368 .0353 .0353 .04521 .1661 .1661	
Fredericks of	10-PRES	7 7 7			
The state of the s		1.70	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	1841	14.438 14.438 -69.825	**************************************	このないだら	ORIGIA
Burn Care	10-122-011	8307 6359 0363	22 22 22 22 22 22 22 22 22 22 22 22 22	10-507 10-507 2-7-20 0-0-682 0-17-89 0-17-89	ORIGINAL PAGE B
e e e e e e e e e e e e e e e e e e e	26.0	657	10000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
To any other states	-727 R	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	151	- 2 ~		13 x 7 C 7 C 2	

Ü

2.01s42 3	ā	C 90 + 14	2801											
3 5 7 7 9 9 111 13 2 2 3 4 4 5 6 1 953 -39 420 8 4 6 1 953 -39 420 8 6 1 953 -39 420 8 6 1 953 -39 420 8 6 1 953 -39 420 8 6 1 95 10 10 10 10 10 10 10 10 10 10 10 10 10	2.0	11:42												
### ### ##############################	!		5	7	:	11	13		7	3	4	S	æ	12
-2.6751.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.2161.	•	· ·		4	22.698	21.253	16.920		4.9223	-51.896	61.95	-39	8.1520	1,31
49.970 45.350 27.935 -9.9148 1.3562 8.3559 0C 0.4915 2.8451 -1.7193 1.7491 U. 49.970 45.350 27.935 -9.9148 1.3562 8.3559 0C 0.4915 2.8451 -1.7193 1.7491 U. 49.970 45.353 -41.807 3.4330 -22.698 -31.253 18.920 US -3.4807 0.9727 -0.5007 11.184 1. 92.653 -41.807 3.4330 -22.698 -31.253 18.920 US -3.4807 0.9727 -0.5007 11.184 1. 3.5934 5.2442 -1.2209 4.6170 0.6414 0.4782 UPC -1.6695 2.4635 -0.9498 -0.3501 -0.3614 0.2452 UPC -1.6695 2.2692 -0.7951 0.5281 -0.3614 0.2452 UPC -1.6695 2.2692 -0.7951 0.5814 0.2452 UPC -1.6695 0.2453 0.4069 UPC -1.6695 UPC -1.6	1	500.2		14 C 24 F	47100	1 1 1 1 8 2	-8-3659	:	-57.376	-63.094	39.11	2	15.57	7 · · ·
92.65341.877 3.430 -22.698 -31.253 18.920 US -3.4807 0.9727 -0.5004 11.104 1.3.594 5.2655 -32.632 -12.029 -3.594 5.2642 -12.209 4.6170 -0.6414 0.6712 TPC -57.355 85.655 -32.632 -12.029 -3.594 5.2642 -12.229 4.6170 -0.6414 0.6712 TPC -57.355 85.655 -32.632 -12.029 -3.5940 -2.0219 -2.0219 -2.0219 4.1273 -0.7554 0.4782 UPC -1.6695 2.4936 -0.9498 -0.3501 -0.3504 5.2482 1.2209 4.6170 0.6414 0.6712 DPS -1.1665 2.2692 -0.7951 0.5281 -0.3504 5.2482 1.2209 4.6170 0.6414 0.6712 DPS -1.1665 2.2692 -0.7951 0.5281 -0.7951 0.2452 DPC -1.6695 2.4936 0.7863 0.0769 0.2562 0.4364 -0.2562 DPC -1.6695 2.2692 -0.7951 0.0769 0.2562 0.4364 -0.3547 0.2452 DPC -1.6695 2.2692 -0.7951 0.0769 0.2562 0.4364 -0.2562 DPC -0.4564 -0.2562 DPC -0.2662 DPC		.0000 UV	* 4	27.925	8 7	1.3582	8.3559		0.4915	2.8451	-1.719	- :	1040.0	
-3.5934 5.2462 -1.2209 4.5170 -0.6414 0.6712 TPC -57.355 85.656 -32.632 -12.073 -9.613 -9.6190 -2.02097 -2.2319 4.6170 -0.6414 0.4782 TPS -40.075 77.957 -27.315 16.143 -9.16190 -2.02099 -2.22319 4.1273 -0.7584 0.4782 UPC -1.6695 2.4936 -0.9498 -0.9501 1.6190 -2.02099 -2.2319 4.6170 0.6414 0.6712 UPC -1.6695 2.2692 -0.7951 0.5201 -0.9504 5.2482 1.2209 4.6170 0.6414 0.2452 ATC -0.1537 -0.8603 0.7683 0.0769 0.2452 1.2209 4.6170 0.6414 0.2452 ATC -0.1537 -0.8603 0.7683 0.0769 0.2452 0.2265 0.2265 0.2265 0.2262 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2265 0.2263 0.0231 0.2265 0.2263 0.0231 0.2465 0.2265 0.2263 0.2263 0.0231 0.2150 0.2150 0.2265 0.2263 0.0231 0.2265 0.2265 0.2263 0.0231 0.02187 0.2150 0.2265 0.2263 0.0231 0.02187 0.2150 0.2265 0.2263 0.0231 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.02187 0.		47.77	# Ca	CC 2 2 2	80	-31.253	18.920		-3.4807	0.9727	.0.201	⊒ ;	1.0034	, i
1.6190. 2.0203 - 2.2319 - 4.1273 - 0.75%4 0.47%2 TPS - 40.075 77.957 - 27.315 14.14.3 - 9.1519 - 2.0203 - 2.2319 - 4.1273 - 0.75%4 0.47%2 UpC - 1.6695 2.4936 - 0.9498 - 0.3501 - 0.3519 0.2452 - 0.3511 0.5281 - 0.3511 0.2452 - 0.7951 0.5281 - 0.35934 - 5.2492 - 0.3593 - 0.2452 - 0.7951 0.5281 - 0.35934 - 5.2492 - 0.3693 - 0.2452 - 0.7951 0.5281 - 0.3693 - 0.2455 - 0.4384 - 0.3657 - 0.3657 - 0.3657 - 0.3657 - 0.3657 - 0.3657 - 0.3657 - 0.3657 - 0.3657 - 0.3750 0.2562 0.8725 0.07519 - 0.1394 0.2465 - 0.4384 - 0.3657 - 0.3657 - 0.6174 - 0.2755 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08725 0.08	ı	570076		01/66	02.44.7	40.49	0.6712	1	-57,355	85.656	-32.63	-15	-0.445D	0 0
1.6190 2.0203 2.2319 4.1273 -0.7584 -0.4782 UPC -1.6695 2.4936 -0.94980.3501 -0.35190 2.0203 2.25319 4.1273 -0.41872 UPC -1.6695 2.2692 -0.7951 0.5281 -0.3180 0.2452 0.7951 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.6418 0.		4075	20520	<u>.</u>	4 T 0 0 1	152.0-	0.4792		-40.075	17.951	-27.3]	7	-9.2379	3, 7
1.5170 2.0272 -2.527 4.6170 0.6414 0.5712 0PS -1.1665 2.2692 -0.7951 0.5261 -9. 3.5504 5.2482 1.2209 4.6170 0.6414 0.2452 ATC -0.1537 -0.8603 0.7683 0.0769 0. 7.0934 1.3397 -0.310 0.7258 0.2367 -0.3720 ATS -0.6174 -0.2745 0.2562 0.0769 0. 1.0219 -0.1399 0.2465 0.4364 -0.3567 0.3550 1.0219 -0.1399 0.2465 0.4364 -0.3567 0.3650 1.0219 -0.1399 0.2465 0.4364 -0.3547 0.2465 2.34620 -3.370 -4.0413 2.4078 3.0700 0.4069 2.34620 -3.370 -4.0413 2.4078 3.0700 0.4069 2.34620 -3.373 -0.4279 0.0531 0.2731 0.2150 2.4408 -0.3373 -0.4579 0.0531 0.0787 2.01355 -0.2152 0.2283 0.0339 0.0531 0.0787	י צי	1.6199		, r		-0.7584	-0-4782		-1.6695	2.4935	556.0-	o	-0.1375	5
3.5904 5.2482 1.2209 4.0110 0.758 0.2452 ATC -0.1537 -0.8603 0.7683 0.0169 0. -7.0938 1.3397 -0.8101 0.7258 0.5314 0.2452 ATS -0.6174 -0.2745 0.2562 0.8725 0. 1.0219 -0.1399 0.2465 0.4384 -0.3647 0.2452 1.0219 0.1399 0.2465 0.4384 -0.3547 0.2452 1.0219 0.13397 0.8001 0.7258 -0.3314 0.2452 8.9133 -3.1705 0.4010 -3.3373 0.4059 -3.3620 -5.7170 -4.0413 -2.4074 3.0700 0.4059 -8.3620 -5.7170 -4.0413 -2.4074 3.0700 0.4059 -0.4408 -0.3373 -0.0719 -0.1507 0.2731 0.2751 -0.1355 -0.2152 0.2283 0.0339 0.0531 0.0787	۲	1.02120	2.02.1%	2.62.5	n :	4.04.0	2.74.0			2.2692	-0.79	ے	のおもとのでき	1.0
-7.0938 1.3397 -0.010 0.7257 0.3567 -0.3520 ATS -0.6174 -0.2745 0.2562 0.007 1.0219 -0.1399 0.2465 0.4364 -0.3567 -0.3520 ATS -0.6174 -0.2745 0.2562 0.08725 0.007 1.0219 -0.1399 0.2465 0.4364 -0.3567 -0.3520 ATS -0.6174 -0.2745 0.2262 0.02745 0.2462 0.2263 0.4200 -3.3373 -0.4209 -0.4099 0.4200 -3.3373 -0.4274 -2.0426 0.2230 0.0531 -0.0787 0.2150 0.0531 0.0787 0.2152 0.0539 0.0531 0.0787 0.2152 0.0539 0.0531 0.0787 0.2150 0.0539 0.0531 0.0787 0.2150	S	3.5904	5,2442	1.5209		•	24.50		-0	-0-8603	0.75	ے	0.0232	0.0
1.0219'-0.1393' 0.2465 0.4384 -0.3557 0.3520 1.0219' 0.1393. 0.2465 0.4384 -0.5357 0.2522 1.0219' 0.13397 0.8001 0.7258 -0.5314 0.2452 8.9133-3.1765 0.4200 -3.3373 0.6274 -2.0426 5.33.620'-5.7176'-4.0413 -2.4678 3.0700 0.4069 5.8620'-5.7176'-4.0413 -2.4678 3.0700 0.4069 5.8620'-5.7176'-6.0420 -3.3373 -0.6274 -2.0426 5.8631935-0.2152 0.2283 -0.0531 0.0531 0.0787 5.91355-0.2152 0.2283 -0.0339 0.0531 0.0787	٠ ي	-1,0938	1.3397.	10:00:00		= =	0648-0-		C	0	0.256	Ö	S.	400
1.0219	s ·	1-0519	_ (0.2400		1	0.3520			:				
5. 10.957 10.5397 0.0001 0.0523 0.06274 0.0953 0.0001 0.0523 0.06274 0.06274 0.06274 0.06274 0.06273 0.06273 0.06273 0.06273 0.0631 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0531 0.0	Ų,	1.0219	0.1930	7.07.0	•	1	0.2452							
5 - 33 - 620 - 5 - 7170 - 6 - 0413 - 2 - 6173 - 3 - 0700 - 33 - 620 - 5 - 7170 - 6 - 0413 - 2 - 6173 - 3 - 0700 - 5 - 33 - 620 - 5 - 7170 - 6 - 0420 - 3 - 3373 - 6 - 6274 - 6 - 6200 - 3 - 3373 - 6 - 6274 - 6 - 6273 - 6 - 6273 - 6 - 6273 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 - 6339 - 6 -	S	7.0938	103397) (0 K 9 G							
53.620.57174 4.0413 2.4678 3.0700 53.620.57174 4.0413 2.4678 3.0700 5.869193.373 8.06200 3.3373 8.06274 5.86409.863373 8.06719 8.01507 9.2731 5.86409.8651952 0.2283 0.0339 0.0531 5.86409.8651952 0.2283 8.06339 0.0531	ان.	7.9175	ů,	00240	7.6	. 44	-0.4069							
S = 8.91 \ 3. = 3.1705 = 0.4200 = 3.3373 = 0.6274 = 0.6409 = 3.3373 = 0.6273 = 0.6409 = 0.1507 = 0.2731 = 0.1355 = 0.2253 = 0.0339 = 0.0531 = 0.1355 = 0.2253 = 0.0339 = 0.0531 = 0.1355 = 0.0531 = 0.1355 = 0.02731 = 0.2263 = 0.0339 = 0.0531	20	. 020 4 KE		6140-4-	4 0	1 643	0.4059							
5 0.1355 -0.2152 0.2283 0.0339 0.0531 0.05 5 0.1355 -0.2152 0.2283 0.0339 0.0531 -0.05 6 0.1355 -0.2152 0.2283 -0.0339 0.0531 0.0	י ענ	1930000 1810183		0024-0-	3.3	ĭ	-2.0426							
\$ 0.1355 0.2152 0.2283 0.0339 0.0531 -0.0 0.1355 -0.2152 0.2283 -0.0339 0.0531 0.0	,	10.44	5	-0-0719	0.	C	2							
0-13550-2152 0-2283 -0-0339 0-0531 0-0	<i>ا</i> د د	6551-0		0.2293	0	0.053	9							
0.074) () >	, ,	-0.2152	0.2283	0.0-	0.05	9							
Tana 15.300 10/100 61000 6166000 908400 S	AYS	4808	0-3373	0.0719	-0.1	2	•21							

-PRELIMINALIZ DALLA

	8 12 15-504 -11-057 123-39 B-1506 1-1643 0-2034 9-0365 -1-6615 5-9414 -0.7311 0-2631 -0.0213 0-1741 -0.0213 0-1939 -0.2213 1-1311 0-1502		
	5 -61.005 1.4243 3.3919 4.0553 6.3511 36.541 0.1557 0.0232		
PAGE	3 4 56.523 105.04 45.411 151.94 45.411 151.94 -4.9803 4.5019 -2.6558 2.2679 -2.6558 2.2679 -2.6679 -20.429 -0.6686 -2.0429 -0.6686 -2.0429 -1.1620 -9.6584 -1.1620 -9.6584 0.7431 1.3703		
FEB 75905133	2		
13	- Sementac tacao	0.100	į.
ID-PRESSOUTO			.2327 0.3483 .00414 =0.1680
	43.982 -1 -24.570 2 -24.870 -2 -23.982 -1 -1.1939 -2 -2.4439 -2 -2.4439 -1 -1.1339 -1 -1.1339 -1 -0.1042	1.4053 -3 -2.0122 -1 -2.0122 -1 -2.0122 -1 0.4063 -3	-0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-1525 -0-152
1 2	55.753 	4	-0.0911-0-13450.09115-0-1345
TST-727 PH-	NO STATE OF	13 LPC 65.	AXS = (
		*	

!!												
•	'n		•	11	13		2	e .	***	S	r	12
A7.62	172	+0·1°6	21.545	5.3180	35.957	1	-11.026	-105.09	-124.65	A. 99.782	-3.0483	=11.2 AF
70.85	27.977	33.515	35.049	#37°044	17.315	S ∪	-19.55/ -3.3147	6550.0	-5.1140	1.7594	#966.1°	0.2233
~	101727	-53-313	1.545	5.3190	• (•) · :	SOF	-1.6368	0.6A72	15.547	. U. 1563		3.2565
;	1.3432	0 6 7 C		-0.4938 -0.4938	0.0019 0.0078	100	63.270	-76.362	-5.5k2f	5-53.54·U		9.51.37 1.11.11
אט עי	1 1 0 .	8660	96.73	-0.493B	0.0078	OBC	6.5000	2.23H2	0.7274		-0.0193	U.2766
-	-1.34	6170	2412	0.1279	0.1529		-0.4137	-1.1324	0.596	.		0.1391
. w	7.51	153	2995	1.0350	0.4750		-0.1110	1.5669	3 0°0720.	7. =0.586¥		1 2 3 3 3 3 3 3 3 3 3 3
7 V V V	-1.24	• F 15 to	•	1.0790	0.0473 0.043							
46°0° SdA	5.31	1.754	-2-2231	-4.6646	2.0176							
7	·42-	9410	1.691.	4450.5-	6210.1							
	•	11.764		4.6648	2.0176	!		1				
1	C	0.2530	•	-0.u5uk								
AXS 0.6		-0.35	•	450E • 0	0.1645							
14 AVC 0.524	13 0.0645	-0.3522 -0.2630	0.2437		0							

PRELIVINARY DATA

All says of A

- Care -

Control of Page

الا 2•4	• 11:45						ı		: :	! :		
•			. 6	11	13			m	•	2	α¢.	12
			673	6 1530	2.8936	1	13.962	53.440	71.600	-102.74	-12.535	-71.029
•	-69.185 -25.4	-1		0 555			63.329	-74.303	59.621	. 61.0143.	8.3442	-26.013
•	-32.431. 4.13	7	7.	9.6554	13.985		1.3347	2.9401		6140.44	-1.1201	
• > 2	32.4317.1340		21.573	US\$5.5-	2.6934	50	-2.9599	2.3125	-1.4530	5.3170	1.42/4	7447
	10 M	- C	6665	-1.9360	0.0392		*34°649	16.349		10.414.	700.00	4
•	24 ()	\	1418	1.1251	-1.2521		-10.764	83.60k	•	.677°7	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	8-0 1010-9		1418	1.1251	1-2527		-1-1526	0.4759		0.444.0	11.6055	000000
i	3.8333 6.33	2,1	6904	1.9350	2914.0		-0.3134	2.4.330	746	-0.7785	0.0757	-6.0150
	6.63530.02	5	6649	0.2411	6942.0		0.2282	104040	0.554	1946-0	-0.026k	-0.2855
ی د	.5100.C	-1.3	.1206	Z+11+U=	0.0014	ETS.	-0.304F	711000	> ;)).).	
707	2.51-10-	7	•	-0-1147	-0.014							
Š	0.0- 6559.4	9.0		-0-2-11	F05.0							
_	610.0	6.0.4	1 . 24.8	0240-0-		1						
_	5.	. 19	2,55.2	7614.1	7							
Ü	2.929 -2.4	166.	•	367441								
S	0.019: -5.3	30 -4-0.3	•		-					!		
	1-024170	5 =0.147	0.1055	677000	: 0							
	0.0	581 0.252	10.107) (1							
	0°0 .0227°	881 U.252	~	. د ا	•							
	41520.1	575 0.14	0.1533	-0.0223	0.00.0							

English addition

ORIGINAL PAGE IS OF POOR QUALITY

151-72	151-727 Pm-1 [id=122.0]:46	22.0	9511	4 −01	10-PRESSOUTO	;	13	FEE 7540	75405133	PAGE	£ 7		
~	404: SEG 1046 2.01:46	9/		į	-	:							
:	5 			5	11	13		7	· ·	4	s	. æ	12
×	361-82-		-4.8122	-2.8996	-34.267	38.673	1	-3.6062	-136.92	-132.56	44.122	17.037	51,5
Sx 2	92.402. 3	~	-3.9262	-40.469	1-6920	-20.926	15	30.683	<u>`</u> ``	-83.420	9.1603		20.1
ر د ۲	.209.25	1.307	-3.8252		1.0920	50.926	3	-5-2153			-2.5734	-1.6574	1.37
. YS	24.794	-30.627	4.4722	750H-2-	34.867		CS	-2.063K		-1.6265	1.0063	9.4.343	-2.10
ر د د	2010.4	0.5293	0.9077		5.6149	-1.2121	1 PC	-123.61	73,637	***5369	165.69-	-23.261	-12.7
ر ا ا	1.9770	3791	3.1044	1.1709	0140.0-	6,6443	105	24.723		-21.134	42.534	-15.552	6.36
	1.4777	3791	3-1044	0021-1-	0180.0-	E554.0-	ربي دون	-3.5982			•	-0.6771	-0.37
		1,2563	10.5017	11.8441	4414.5-	1515-1-	OPS	0.7196		-0.6152	•	-0.4527	0.15
) x b	-3.16.23.	- 3.2243	-1 - 1 - 1 F	-0-1368	0.3224	-0-1620	ATC	-0.2270	-1.4216	-C. r. 64		0.0427	0.43
STATE	3.3441.	3.4:35	1.544	*400 * I -	1822-0-	-0.6242	ATS	0.0537	10.	-U.7419		-0.4771	56.0
) A A C	3.3561.	******	4451.4	1.00.54	1622.0-	0.6232					•		1
S d A 2 !	3.0423		10 mm	-0.136R	-0.3220	-0.1620							
12 C			-5-4596	-4.2342	0.4127	-2.4752							
71.	-50-104-69		01,7.1.	2.5237	7.12	0 × 0 × 1							
	-5c-15e- 6-	5.3343.	-1.2910	-2.5237	1.4772	-1-9080							
	1		2.4.70	2+62-5-	7214-0-	-2.4152			:				
7 4 4 7 7 Y	0 - 2459-0	0.2031		4 Log - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	12/2-1-	٠							
	١		* * a : : : : : : : : : : : : : : : : :	2126-0-	1,000	~ '							
; ; ; ; ;			57.50	7.76		07.1.0	:						
S 4 5 5	0-345t0.	,2031	0.0004	+100·n-	0.2727	0.3182				! : : :			! !
		!	i		;	1			;	,			
										ı			 - -
								7	MARKET STREET	ARY DA	じんこう		
								1	していると				

X	KU31SEO	CHOISED 1047											
XC =31,747 =42,135 =12,291 =17,861 =120,86 =17,993 TC =11,740 =146,006 XS =3,8164 = 67,149 = 4,540 = 6,9494	Z•01147												
XC =31.747 -42.135 -12.241 -17.841 -120.84 -17.993 TC -11.740 -146.06 XS		\$	7	6	11	13		2		4	5	8	12
63.604. 01.149 4.5 00 6.9099 1.3013 -14.471 15 1.7124 -16.801 63.70467.149 6.5302 -6.9099 1.3013 14.471 UC -5.2230 2.0168 31.77 -42.135 17.241 -17.461 120.44 -17.993 US -3.7932 1.0158 4.3274 -0.2344 0.2341 -0.2043 6.1540 -1.7496 1FC -10.1329 1.4293 0.1847 1.2745 1.1135 2.0407 0.5464 GPC -4.8595 2.4414 -4.3274 0.2344 0.2351 -0.2443 -0.1440 -1.7494 UPS 0.7113 0.0039 3.9943 3.1749 1.2745 1.1135 2.0407 0.5464 GPC -4.8595 2.4414 -4.3274 0.2344 1.2745 1.1135 2.0407 0.5464 GPC -4.8595 2.4414 -4.3274 0.2344 1.2745 1.135 2.0497 1.0169 3.9943 3.1749 1.2745 0.1299 1.0179 3.9943 3.1749 1.3475 -0.2341 1.04767 3.9943 3.1749 1.3475 -0.2218 3.9943 3.1749 1.3475 -0.2218 3.9943 3.1749 1.3475 -0.1098 0.5465 -0.3497 0.1795 0.1799 1.1196 -0.1018 0.5465 -0.33997 0.1795 0.1219 1.1196 -0.1018	٠		-12.291	-17.841	-120-84	-17,993	1	-11.740	-146. ⁰ 6	-151.RO	76.042	-51.636	940
VC 63.49467,149 6.5402 -6.7699 1.3013 14.471 UC -5.2230 2.0168 VS 31.74762.135 1.2241 -17.461 120.44 -17.993 US -3.7992 1.0158 VS 31.74762.135 1.2241 -17.461 120.44 -17.993 US -3.7992 1.0158 US 1-3274 0.2354 0.2351 -0.2343 6.1549 1.01549 0.21329 US 1-4293 0.1847 1.2745 1.1135 2.0107 0.5464 GPC -4.6595 2.4414 VS 1-4293 0.1847 1.2745 1.1135 2.01041 -1.7494 GPS 2.46557 0.1329 VS 3.3774 0.2354 -1.2745 -1.1352 2.01041 -1.7494 GPS 0.7119 0.1039 VS 3.3774 0.43745 -1.3513 -0.2043 -0.17491 -0.1249 ATC -0.3929 -1.7107 VPS 3.4943 3.1749 1.3513 -0.2043 -0.1645 0.1652 VPS 3.4943 3.1749 1.3513 -0.2241 1.4157 1.6167 VPS 3.4943 3.1749 1.3513 -0.2241 1.0160 VPS 3.4943 3.1749 1.3513 -0.2241 1.0160 VPS 3.4943 3.1749 -1.1196 -0.1616 VPS 3.4943 3.1749 -1.1196 -0.1616 VPS 3.4943 3.1749 -1.1196 -0.1616 VPS 3.4943 3.1749 -1.2516 5.4343 -2.2461 -1.6657 1.6160 VPS 3.4943 3.1749 -1.2516 5.4343 -2.2461 -1.6657 1.6160 VPS 3.4943 3.1749 -0.3695 0.0754 0.1160 0.1160 VPS 3.4943 3.1749 0.0795 0.0754 0.1160 0.1160	N. X.		40,5 40,4	6.9034	1.3013	-14.471	15	1.7124	-16.861	-71-134	-3.5436	-34.405	-
VS 31.747.=42.135 12.241 =17.461 120.44 =17.393 uS =3.7932 1.0758 LC 4.3274 0.2344 0.2341 =7.2443 6.1549 =1.7496 TFC =10.495 US.412 LS 1-4293 0.14847 1.2745 1.0135 2.6607 0.4464 TPS 24.457 0.1329 FC 1.4293 0.18847 1.2745 1.0135 2.6607 0.5464 QPC =4.8595 2.4414 ES 1.4293 0.18847 1.2745 1.0135 2.6607 0.5464 QPC =4.8595 2.4414 ES 2.4374 0.18477 1.2745 1.0135 2.6607 1.01249 ATC =0.3929 =1.7107 EDS 3.3074 0.4745 1.0513 -0.2441 1.01249 ATC =0.3929 -1.7107 EDS 3.4943 3.1749 1.0513 -0.2401 1.01249 ATC =0.3929 -1.7107 EDS 3.4943 3.1749 1.0513 -0.2401 1.01249 ATS =0.1342 0.2050 EDS 3.4943 3.1749 1.0513 -0.2241 1.0407 EDS 2.2371 9.3475 -0.2241 1.0407 EDS 2.2371 9.3475 -0.2241 1.0407 EDS 3.4943 1.2516 5.4349 -2.2441 1.0407 EDS 3.4040 0.0795 0.0795 0.0199 EDS 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 0.1600 0.1600 EDS 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0.1600 0		•	4.5.40	6604.00	1.3913	14.471	O T	-5.2230	2.0168	-3.1630	·=1.3354	6552.2-	-1.11
LC	i	7	1,70/1.	-11.461	120044	-17,393	S	-3.7982	1.0058	1.5593	1.3195	4.(:314	
LS 1-293 Dolth 7 1-2745 1-1135 2-6507 Dorth 4 TPS 24-457 U-1329 LS 1-4743 Dolth 7 1-2745 1-1135 2-6507 -0.5564 GPC -4-8595 2-4414 LS 1-4743 Dolth 7 1-2745 -1-1135 2-6507 -0.5564 GPC -4-8595 2-4414 LS 1-4743 Dolth 7 1-2745 -1-2743 -0.564 GPC -4-8595 2-4414 APS 3-9474 U-8745 -1-3475 -0.3702 -0.3201 -0.1249 ATC -0.3929 -1-7107 APS 3-9473 3-1749 1-3513 -0.5675 U-1749 ATC -0.3929 -1-7107 APS 3-9473 3-1749 1-3513 -0.5675 U-1749 ATC -0.3929 -1-7107 APS 3-9473 3-1749 1-3513 -0.5675 U-1749 LPC 11-573 12-516 -5-650 -2-2461 1-3457 U-1767 APS 3-9439 -3-1749 1-3475 -0.3741 1-3457 U-1767 APS 3-9439 -3-1749 1-3-2461 1-3-6757 1-6767 APS 3-9439 -3-1749 1-3-1749 -0.1767 APS 0-3665 -0.3677 U-1769 -0.1769 -0.1160 APS 0-3665 -0.3349 U-1769 -0.0758 U-1196 -0.1160 APS 0-3666 -0.3497 U-1264 -0.1279 1-1196 -0.1918	126.4 327		0.2361	-D-2043	6.1540	-1.7.96	76.	*100.45	63.472	* 203 · 0 •	210.25	471.7	
## 1-4743 = 0.1547 1.2745 = 1.1135 2.5507 0.5564 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	15 10429	_	1.2745	1-11.35		0.4464	TPS	24.457	0.1329	-33,303.	-21-135	-3.5547	
25 = 4,32 fc	10.62		1.2745	-1-1135		-0.5.64	ر مهر	-4-8595	2.4414	-0.5005	-1.4141	-()-F067	
XFC =3.3076- U.8745 =1.3475 =0.3302 =0.3201 =0.1249 ATC =0.3929 =1.7107 3.4943- 3.1764	•		146200-	-0.55043		-1.7.63	50	0.7113	9800°0	-0.9711.).h320	-0-1122	
3.9943. 3.1764 1.3513 -0.2003 -0.2565 0.1562 ATS -0.1342 0.2050 THE 3.4943. 3.1764 1.3513 -0.2003 -0.2505 -0.1562 THE 3.49433.1749 1.4513 0.4002 0.3201 -0.1249 THE 3.47433.1749 1.4513 0.4075 -0.2507 1.6767 THE -11.573 12.516 -5.6500 -2.2461 1.4057 1.6767 THE -22.471 9.4345 -9.7750 3.0355 -0.4773 0.2218 THE -22.471 9.4345 -9.7750 3.0355 -0.4773 0.2218 THE -22.471 9.4345 -9.7750 3.0355 -0.4773 0.2218 THE -22.471 9.4345 -0.7750 0.0750 0.01160 THE -22.471 9.4345 -0.07765 -0.0750 0.01160 THE -22.471 9.4345 -0.07765 -0.0750 0.01160 THE -22.471 9.4345 -0.07765 -0.0750 0.01160	•		-1-3-75	-11.34.12		-0.1249	A C	-0.3929	-1.7107	-0.9433	1.4322	-0.5711	
7FC 3.4933.1749.1.4513 (m		1.3513	£000°00	5057-0-	0.1302	ATS	-0-1345	0.2050	-0.6565°	0100000	-0.5477	90.0
## ## ## ## ## ## ## ## ## ## ## ## ##	3.19	•	104513	E34463	\$062°0=	-0.1862							
LPC =11.5/3 12.516 =5.65/0 =2.2401 1.3457 1 LPS =22.371 =9.3346 =9.7159 3.4355 =0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8773 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8775 = 0.8	3.30		3+15	-0.8 ·0-		-0.12×9							
LPS =22.371 -9.7346 -9.7150 3.0355 -0.8773 0 LPC =22.371 9.9395 -9.7150 -3.0355 -0.8773 -0 LPS 11.573 12.516 5.4340 -2.2961 -1.5057 3 AXC =0.3050 -0.3097 -0.1264 -0.1219 -1.1196 -0 AXS 0.5665 -0.5369 0.0795 -0.0758 0.1150 -0 AYS 0.3066 -0.3097 0.1208 -0.1219 1.1196 -0	15.11-			-2.2401	1.31.57		1						
4FC -22.371 9.9395 -9.7150 -3.0355 -0.6873 -0.95 11.573 12.516 5.430 -2.2961 -1.5057 12.516 5.430 -2.2961 -1.5057 13.05 11.573 12.516 5.430 -2.2961 -1.5057 13.05 12.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05 13.05	LPS -22.37	5-1		3.(1355	-0-3773								
#PS 11.573. 12.516 5.434.) =2.2961 =1.5057 12.516 =0.307 =0.1274 =0.1219 =1.1196 =0.455	-22-37	656.6	0517.	-3-6:355	-0.4773								
AXC -0.3070 -0.3037 -0.1274 -0.1219 -1.1196 -0.4XS 0.5405 0.5369. 0.0795 0.0758 0.1150 -0.4XC 0.5465 -0.5369. 0.0795 -0.0758 0.1150 -0.4XS 0.3066 -0.3097 0.1204 -0.1219 1.1196 -0.4XS	11.57	<u>.</u>		-2.2461	1		1	:					
AXS 0.5405 0.5369. 0.0795 0.0758 0.1150 -0 AYC 0.5465'-0.5349 0.0795 -0.0758 0.1150 0 AYS 0.3066'-0.3097 0.1208 -0.1219 1.1196 -0	AAC .	C-8-0-		6121.0-	•	ĭ							
AVC 0,5465'-6,5349 0,0795 -6,0758 0,1150 0 AVS 0,3456'-0,3497 0,1264 -0,1219 1,1196 -6	AXS	0.536		0.0758		ĭ							
0-3456-0-3497 4-120H-4-1219 1-1196 -0-1	AYC C.	, =(i = 534		95/0.0		_							
	P	-0°309		-0-1219		0					•		
				-						1			
DEED WARY DATA								20	NETT	ARY DA	\TA		

-

.

	RUNI SEU	010/											
~	2.01148						<u> </u>	! 					
	· ·	5			11	13			m	•	5	8	12
- X	-9.524R	13.746	6.6273	-4.3704	8.6642	17.843	10	-18.182		-134.84	13.068	-10.751	7.1594
2 xS	F1.406-	33.001.	14.153	~	-20.32H		15	-13-319	-0.9602		-61.049	- 41.335	8.53nz
	81.406	•	14.153		-24.328		Ş	-3.7714		ı	0.6963	0.5044	-0.4542
2	9.520H		-6.6273		-8.6542		S	-0.8520	1.9643	3.9490	. 0.2795	2.4904	-1.4352
	0.4364	0.5576	P0.700		-0.6927		TPC	-104.41	57,886	-33°056.	•	:	0.7511
	4.3157		1924-1-		-6.9222		TPS	57.753	-56,291	-14.222			3.78.2
ر ب د	4.3157	0.1878	14.26.1-		-0.9222		200	-3.0391	1.6850	-0816-O-	•	ှံ	0.0213
\$	-0.930¢	94.900	0.7.00		1,6927		San	1.681	-1.6385	-0.4140-		ł	0.11:03
Jax 6	0.4(.93.		2.0278	-1.597ē	.0.3596	0	ATC	-0.2607	-1.4521		0.9663	•	-0.037n
SOX OF	4.9743		0.6110	0.20.26	0,3910		ATS.	-0.1660	5		-0.4747	-0.0561	5+4700
	4.9743	-1.5~55		41.5025	0.3410	?		•		}		-	
C YPS	-0.4033			-1.5970	C.3596								
13 LFC	-530019	_	15-5-40	3.7402	•1 <i>•0</i> 626								
12115	-1.0400.Ye		. 7.0139	6.7465	-2.3492	-1.2539							
14 th	-7.639U	16.341	7.0439	-6.7465	-2.3492								
14 4PS	23.014	_	12+5.9	3.9402	1.0626	• • • •							
JAKC.	-0.217+			+150.U-	0.1273		i i						
IT AXS	0.5216	0.3202	0.1353	P(00°0-	-0.2357	ç							
	0.5216	•	-	0.0018	-01.2357	၁							
E AYS	0.217	0.1246	-U-1143	-U-0274	-0-1278	0.1937	: 						

PRELIMINATION DATA

	03533555
	12 64.710 -27.734 0.01 × 7 0.01 × 7 0.01 × 2 0.01 × 2 0.01 × 2 0.01 × 2 0.01 × 2 0.01 × 2 0.01 × 3 0.01 × 3 0 ×
	9.24.65.1 1.65.1 2.02.79 3.05.71 14.68.7 0.04.40 0.44.33 0.16.72 0.16.72 0.24.33
31	4 5 5 4 5 5 301 42 64 6 5 301 42 64 1 4 4 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6
PAGE	,
133	3 -135.11 -176.103 1.5133 -1.6935 63.603 -1.8763 -1.5765 0.2831
13 FER 75205:33	2 43 110 5 43 410 5 47 43 4 149 73 149 73 149 73 149 73 149 73 149 73 160 10 160 10 16
13 6	OCT COS
	13 4.0566 11.560 11.560 11.560 1.7394 1.2370 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.2779 0.
-PRESSAUTO	11 3. 130 3. 132 3. 132 1. 5. 136 1. 5. 136 1. 6.
Q	22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22-319-22
1369	23.422 23.422 23.422 23.422 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.4133 2.
151-727 PH-1 ['4-122.01:49	3 5 3 5 62.611 67.745 62.611 66.745 16.852 6.6736 1.3136 0.6375 2.552 0.1241 2.552 0.1241 1.3134 0.6375 1.3134 0.6375 1.3134 0.6377 1.3134 0.6577 2.527 6.677 2.527 6.677 2.5
727 PH=1 [14:	2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
151-727	-

And the second

	050										
3	1	6	11	13		7		•	\$	60	12
x	0(1,5757 - 13,37)	23.594	6.5155	7.4316		-13.692	9.8389	*5.785.	-22-198	6-1715	19.61
7.2920	20.645 52.534	70.370	19.075		1	-31.437	-8.6411	63.41¢.	43,155	47.534	4
7.2520	32.534	-70.379	19.075		ပ ၁ (0865.2-	-2.7125	-01-1033 -01-1033	100100	1.5774	1.25
Ţ.,	-13-371	23.593	20,00		1	-21.565	-7.3106	-34.912.	11.105	5.34.44	35.1
. S. 64.21.35		-3-1033	-1.552.1	0.7695		97.563	-62.738	-20.470	35.610	-17,014	E 2
	-3.4746	-	.2521	0.7695	ļ	-0.6307	-0.2128	-1.1298	n.325¢	0.1702	
5 6143 Sa	1.24117	1.7604		1.4.414		2.8399	-1-9262	-0.5958	1.1530	2649-0-	2 4
KPC 3.2832		0.2521		1560.0	ATC	-0.5357	4556.0	0.5784	•	9444	
** 2.12.32-	-1-5360	1.4157		27700	ATS	-0.3966	C086.0	- 1	1		
201505	(175)1 · 6 (46)	-0-4176 		7540-0-							
	- T -	1.3773		1910-0							
14.6432	٠	6516-1-	1056	-0.5086							
16.632		1.9159		0.5086							
15. 704.	-6.6	1.3773	2.5475	0.0167	:		1				
1108-11	ñ.0925 . 0.1186	0.1245		0.0188							
0.0651	2. 0.3256	0.5585		0.1983							
.1590.0	œ [']	. 565		-0-14k3				1			
0.3911	9611-05	0-1245	-0.0621	0.0186							
							ATAN VA.	Au	DATA		
							11111	·4625	-i		

-		RUNISEU 1053	1053			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			!					
	7	Z.01155												
•			•		•	::	13		~		•	•	T	12
-	×	-32.751	-32,452.	31.450	-2:1-1A7	-2.6943	7.1970	ز	51,378		-41.470	-89.3A3	-37.979	-14.623
~	\$ X	. Kn9 . i l .	147.33-		* 2. 14.3h	-24.575	5.4758	S L	-13.739		90.093	-5.6416	15.67.66	2.45°10
₩ 3	∪ <i>v</i> > >	-11.674	.155.55	000	5.(410	-22°°13	7.1970	รร	016107	3.96.5	104516	64253	10640	516.0
· •	ر:	200	921401	\$15:Je1-	1,2252		-0.3037	100	-27.330	12.827	11.2423	-40.275	355-22	-9.5/4.6-
>	ر ا	50.	1.36.97.	4619°	100 M 100 C	かくアヤ。 こ	0.6843 0.6843	702	194 247	115.57	0.0368	-1.1723	14.041	-0.27**
	ين ب د د	20.026		3 C C C C C C C C C C C C C C C C C C C	7.7.7		7506.0	0 P S :	-1-1220	3.3641	-1-0369	-0.1973	0.4250	-0.145
, Æ	ر ا		7.	-	-0.5742		-0-0F24	ATC	0.5930	-0.1318	-0.2013.	•1.2453	-0.2148	.040°0•
9	KPS	4.4. C	2.1:37	1116.	0.7451	-C-2148	-0.0547 0.0547	ATS	-0.2587	0.0525	1.3752	79-17-0	960G*0	00°0°
= 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, ı.	1.2915	# [77/5-0-	• (1.0 ° ()	9637°U							
	ره	Û	7	7-1-12	0119.4	2-1941	61-11-11-			•				
	LPS	.,	247.6	2000	627101	P644.	\$ (/ 4° 0°							
<u> </u>	ب د م د م	· 4 · 5 · 5 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6	7246.		3 L T 4 4	196102-	0.0870			:	1		1	
	DX7	•	-0-1172	2	•	-0.000A	0.0360	:						
	AXS	0.25	40.3734	\$0.00 0.00	-0.0031	860 100	4 × 10.0					į		
50	2 × ×	0.1669.	5/01-0-	-0.3032	6501-0-	0.0569	0.0366	!		PETITIONARY DATA	INARY	DATA		
. :	i		-	•		; ; ;		1		1		;		į
		0												
		RIG F				**								
		DVA 00		!				•	1		1	!	:	
		T I												
İ		, A			•	: :	•	:				•		
		G N	~ 1											

E adiptibles - Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of Projection of P

Annual Agency

part transfer to 19

	12	38.765 114.092 1.1501 0.4155 6.1607 9.9025 0.2852 0.4625	
	30	44.164 48.551 -0.1771 1.65959 -19.5987 -0.5587 0.0986	
	•	1119.91 105.77 3.6146 0.7136 -15.256 -15.265 -10.4449 0.8670	Y-DATA
	4	-17.882 -51.770 -10.670 -17.815 -27.815 -39.145 -0.74 -1.1394 -0.1074	PREDAKING ARY - DATA
	9	-90.101 -67.022 -0.0399 -0.0311 -0.0399 -1.329 -1.32645 -1.3295 -1.3295 -0.3868	2.484
	2	-21.149 -4.452 -4.4157 -4.4488 -1.78.78 -1.2.434 -0.39037 -0.39037	
		110 110 110 110 110 110 110 110 110 110	
	13		
o cossession and the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of the cost of t	1	17 531 17 531 17 531 17 531 17 531 10 5373 10 53713 10 53713 10 7502 10 7502 10 7502 10 7503 10 0928 10 0928	
	6	9.4296 22.576 22.576 9.4290 0.1307 0.0518 0.0518 0.0518 0.2465 0.2180 0.02180 0.02180 0.02180 0.0271	
0611		41-139 25-112 25-112 25-1139 1-4755 1-5533 -1-5533 -1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534 1-5534	
1056	•	400 40 400 0 400 0 2 4 6 0 0 0 0	
155-727 PH=1 IN-122.01130 RUNISEU 1056	000	6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0	
TST-727	•	AST TO A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND A STAND	

A to the control of

	2.01:57												
	9	- 5	1	6		13		2		*	\$	æ	12
, ,	. EC 7 ()7	. 13 03	2R - 3356	5,0020	26.501	-8.0734	10	-9.3105	-17.803	. 455.69=	0.0017	25.564	-9. A553
7 7 6	1956.5	18.4.	197.66	14,061	11.956	36.365	15.	-37-151	1		-26.594	15.175	-35.499
, , , , , ,	-1698-	•	23.741	196-11-	-11.956	•	S	-2.1973		ı	-1.973 8	-0.4565	0,093
> \ * *	-47.47.4	13.022		5.0000	105.05-	-8.0734	SO	0.2353	•	. 8662.4	1.9073	•	
- L	4-1415	0.4404	-0.3745	0.7933	T417.0-	່ວ	TPC	-68.453		•	-18.6U9	1.3957	-8.0415
	1 - 1 4 2 4.			0.2401	-0.027E	-0.5972	TPS	62,073	•	-12.229	38.610		
	1 - 1626.		76 6 0		67.000	0.5972	OPC	-1,9926		-0.8125	-0.541[- 1	
	-4-1415.	[3	0.3/45	1793	14110		OPS	1.4068	. •		1.1530		
	2.0320	_	664.0 ·		0.1518		ATC	-0-1623	•		0.2026		400.0
54x 0/	3.2407		4661-1-	•	-0.261U		AIS	-0.4869	1.1165	0.6943	-0.2709	0.2099	100390
	3.20.7		7×51.		0102-0-								
	-2.0920	1.0	725+00-	Α.	-v.1613								
را 10ز	-18.627	~	A517.7.		D. H. S. / B		1						
A LPS	3.1051	-10.442	14.4	-7.5534	1.2147	ī							
34.51	3.1067			0.5534	1,2157								
5dF 71	18.627	7 .9503°	-4.4153	1.7492	#L52.0=		!		!				
	0.2320	*001.0	.*	-11-11412	=	7050.0-							
SX8 Y	-0.0145	9601.0	0.26.39	0.1308	7	0.2510							
	-0-0165	Ť		-11-130B	٠ ا		ļ						
SA D	-0-2320	0.1004	0.1133	-0.0412	-0-1961	-0°0501							

portions do

Branch Christia

Particular of 1

3 5 5 7 9 9 111 13 2 2 3 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		RINESES 2.01:372	1372						!					
XC =7.2631:=11.775. 10.319 14.516 12.287 -9.6755 TC =25.453 5.9012 -27.151:=12.453 36.8467	;	.	5	:	; ;	11	<u>.</u>		~	m		5	39	12
XS 29251 36767 23.455 5.5906 2.3510 1.2442 TS 3.9075 3.5773 19.647 22.231 =10.466 XS 29251 96645 28.455 5.5906 2.3510 1.2442 TS 3.9075 3.5773 19.6477 22.231 =10.466 YC 23.251 96645 28.455 -5.5906 2.3510 1.2247	, ,	-7-2631.	.=11.725.	10.319	14.516	12.287	-9. R75	ا	25.458		-27.151	•		3
γ (29.26) -9.6646 28.465 -5.59406 2.3610 -1.2442 UC -0.5501 0.0447 -1.0753 -1.5511 1.5559 U.3169 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U.3650 U	i	29.261	١.	23.455	5.5906	2.3410	1.2442	í	3.9675	•	19.647			-6.64
Y\$ 7.259]11.775-10.319 14.516 -12.277 -5.4755 US U.0460 0.0142 12.211 1.5659 U.33109 L\$ 1.5127-0.4445 3.6167 2.7566 -1.311 1.4459 TPC -97.449 6.55.427 -51.639 1.2.5301 1.5.559 L\$ 1.5127-0.4445 3.6167 2.7566 -1.311 1.4459 TPC -97.449 6.55.427 -51.639 1.6.615 3.35594 U\$ 1.6404 -50.2637 -0.1513 -0.5734 2.0740 0.2740 0.2457 -1.6134 0.3231 -0.7160 -0.3594 W\$ 1.5127-0.4445 -3.5757 -0.1513 -0.5734 2.0740 0.2740 0.2457 -1.6134 0.3231 0.0464 0.1122 W\$ 1.5127-0.4445 -3.5757 -0.1513 -0.5734 2.0740 0.2757 0.2457 0.0499 0.1025 0.1025 0.0451 0.0012 0.2762 W\$ 1.5127-0.4445 -3.5757 -0.1513 0.0478 0.0491 0.0279 W\$ 1.5127-0.4445 -3.5757 0.0499 0.0491 0.0279 W\$ 2.4513 -1.0751 0.1051 0.0497 0.0493 0.0478 0.0499 0.1025 0.1025 0.1525 0.2379 -0.1415 W\$ 2.4513 -1.0751 0.0597 0.0933 0.0478 0.0478 0.0478 0.0478 0.0478 W\$ 2.4513 -1.0754 0.1596 -1.9939 0.0478 0.0478 W\$ 2.4513 -1.0754 0.1596 -1.9939 0.0478 W\$ 2.4513 -1.0754 0.1596 -1.9939 0.0478 W\$ 2.4513 -1.0754 0.1596 -1.9939 0.0478 W\$ 2.4513 -1.0754 0.1553 0.1233 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1553 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1553 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1533 0.0033 0.0478 W\$ 2.4513 -1.0754 0.1559 0.1553 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1509 0.1		29.261	•	78.465	4045.4-	2.3610	-1.2442		-0.5001		-1.0753	•		-0.25
1.5127-0.445 3.6167 2.7616 -1.3411 1.4459 TPC -97.496 73.234 11.095 -24.391 -12.301 1.4034-0.2537-0.1513 0.5734 2.0940 0.2796 8.4404 -55.427 -51.639 1.0615 3.4547 1.4034-0.2647-0.1513 0.5734 2.0940 0.2796 8.4404 -55.427 -51.639 1.0615 3.4547 1.4034-0.2645-0.167 2.7574 2.0940 0.2790 0.2457 -1.6134 -1.5931 -0.7160 -0.02762 1.5127-0.2645-0.1673 2.7574 2.0940 0.00412 0.2457 -1.6134 -1.5931 0.00412 0.2762 2.5473-1.0991 0.1991 0.0427 0.0477 0.0402 2.5473-1.0991 0.1991 0.0427 0.0427 2.54501 1.0393-0.04274 0.0402 2.54501 2.5930 1.0759 0.1896 0.1896 0.10612 2.54501 2.5930 1.0759 0.0930 0.1764 0.1309 0.10245 0.1553 0.0033 0.0476 0.1001 0.0246 0.1553 0.0033 0.0476 0.1001 0.0246 0.1593 0.0033 0.0033 0.0476 0.1001 0.0246 0.1593 0.00346 0.1769 0.1304		7.2531	11.72	o	915.41	-12-257	-9.H755		0•0660		1.2511			ファ・マー
LS 1-4044 0.2537 =0.1513 C.5734 2.0940 0.2306 TPS 8.4404 =55.427 =51.639 1.0515 3.5547 C. 124034 0.22637 =0.1513 =0.5734 2.0341 =0.2303	L	1.5127	44.0-		2.75/6	-1.3411	1.4459		964.16.		11.099	•		-3,32
υς [.40940.2647 -0.1513 -0.5734 2.0740 -0.2906 OPC -2.8379 2.1314 0.32310.7100 -0.3559 νς -1.5127υ.4645 -3.667 2.7576 1.3311 1.4459 OPS 0.26457 -1.6134 -1.55931 0.0464 0.1122 λες -1.5127υ.4645 -3.667 2.7576 1.3311 1.4459 OPS 0.26457 -1.6134 -1.55931 0.0467 0.0467 0.02762 λες -1.6733-1 1.04791 0.1910 -0.3569 0.0470 0.0681 ΔΤΣ -0.0049 0.1025 0.1525 0.2379 -0.1415 0.2379 -0.1415 0.0492 0.1025 0.1025 0.1525 0.2379 -0.1415 0.2379 0.0491 0.2279 0.1025 0.1025 0.1525 0.2379 -0.1415 0.6633 0.2279 0.2279 0.1025 0.1559 0.1569 0.1025 0.1025 0.1525 0.2379 -0.1415 0.0492 0.10279 0.10279 0.10369 0.1764 0.1679 0.10369 0.1764 0.1670 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476 0.1476		*****		m	C.5734	05402	0.2406		8.4404	•	-51.639			K 7 6 -
**S = 1.5127 - 0.2445 - 3.6767 2.7576 1.3411 1.4459 OPS		1.4034	10.2627	-0.1513	*·) •5734	7.0340	9062*u=		-2.8379		0.3231			50.0
XFC = 0.2331 10303 '0.3222 = 0.1152 = 0.4278	ري م	15151-	-0.4665	-3.5/57	2.7576	1.3411	1.4459		0.2457	•	-1.5031			-0.27
755 5.6773 - 1.0471 C.1910 0.3569 0.0470 0.0681 AIS0.0069 0.1025 0.2379 _0.1415 757 5.6773 - 1.0591 0.1910 - 0.3569 0.0470 0.0681 755 5.6773 - 1.0393 - 0.3222 - 0.1152 0.4278 0.0492 LPC -24.547 2.9330 - 1.0458 1.4145 0.6731 0.2279 LPS11.647 - 6.7343 1.0758	S XFC	±0.2351	1.0393	0.3222	-0.1152	H125.0-	0.0402		0.1611		0.0451			0
YFC 5.6713-1.0591 0.1910 -0.3569 0.0470 -0.0681 YFS 0.2351 1.0333-00.3222 -0.1162 0.4278 0.0402 LPC -24.503 2.9330 -1.4553 1.8145 0.6731 0.2279 LPS -11.847 -6.7303 1.0758 0.1596 -1.9999 0.3059 MPC -11.847 6.7303 1.0758 0.1599 0.0033 0.0476 MPC -0.2436 -0.0248 0.1553 0.1233 0.0033 -0.0476 MPC -0.2436 -0.0310 -0.0397 0.0346 -0.1748 -0.1304	50) 01				0.3569	0.0470	0.0081		9900+0-		0.1525			0.05
3.2351-1.4333-0.3222-6.1162 0.4278 0.04027 -24.503 2.9330-1.4553 1.8145 0.6031 0.2279 -11.647'-6.7303 1.0758 0.1596 -1.9939 0.3059 2.015 2.9330 1.4553 1.8145 -0.8031 0.2279 -0.2430-0.0310 0.0597 0.0346 0.1764 -0.1304 0.1651-0.0248 0.1553 0.1233 0.0033 -0.0476 0.1651-0.0310 -0.0397 0.0346 -0.1748 -0.1304	11 VFC		· •		4456.11	0.0470	1890.0-							
-24.944 - 2.94301.4453 1.4145 0.6431 0.2279 -11.847 -6.7343 1.4758 -4.1596 -1.9939 4.3489 -11.847 -6.7343 1.4558 -4.1596 -1.9939 (.3489 -1.847 -6.7343 1.4553 1.4145 -0.6431 (.2279 -0.2430 -0.346 0.1553 0.1233 0.0433 0.0476 0.1661 -0.0246 0.1553 0.1233 0.0433 -0.0476 0.1661 -0.0246 0.1553 0.1233 0.0435 -0.0476	12 YFS		1.133		-0.11h2	0.4278	0.0402							
-11-847'-6.7303 1-0758 -0.1590 -1.9999 -0.3089 -11-847' 6.7303 1-0758 0.1596 -1.9999 (.3059 24-975 2-9330 1-4553 1-8145 -0.5031 (.2279 -0.2450'-0.0310 0.0597 0.0340 0.1788 -0.1304 0.1651 0.0248 0.1553 0.1233 0.0033 -0.0476 0.1651 -0.0248 0.1553 -0.1233 0.0033 -0.0476 0.2436'-0.0310 -0.0397 0.0346 -0.1788 -0.1304	13 LPC		`		1.4145		0.2279							
-11-847' 6-7303 1-0756 0-19939 0-3059 24-933 2-9330 1-4553 1-8145 -0.6031 0-2279 -0.2430'-0.1310' 0-0537 0-0340 0-1768 -0.1304 0-1601 0.0246 0-1553 0-1233 0-0033 -0.0476 0-1601 -0.0246 0-1553 -0.1233 0-0033 -0.0476 0-2436'-0.0310 -0.0397 0-0346 -0.1768 -0.1304	14.05	i	î		9651.0=		-II.3(189							
24.933 2.9330 1.4553 1.8145 -0.6031 0.2279 -0.2430-0.310 0.0597 0.0340 0.1768 -0.1304 0.1601 0.0248 0.1553 0.1233 0.0476 0.1601 -0.0248 0.1553 -0.1233 0.0033 -0.0476 0.2436 -0.0310 -0.0397 0.0346 -0.1748 -0.1304	Jdis Si	-110847		•	0.1596	-1.3939	0.3089							
-0.2436'-0.0310'-0.0597 0.0346 0.1768 -0.1304 0.1681 0.0248 0.1553 0.1233 0.0476 0.1681 0.0248 0.1553 -0.1233 0.0033 -0.0476 0.2436'-0.0310 -0.0397 0.0346 -0.1768 -0.1304	Sdirgi	24.918		1 • + 553	5714.1	-0.6031	6.2279				!			
9.1651 - 0.024# 0.1553 0.1233 0.0033 0.0476 0.1651 -0.0246 0.1553 -0.1233 0.0033 -0.0476 0.2436 -0.0314 -0.0397 0.0346 -0.1768 -0.1304	JAAC	-U+2430	•		0.0340	0.1783								
0.16510.0248' 0.1553 -0.1233 0.0033 -0.0476 U.2436'-0.0310 -0.0397 U.0346 -0.1768 -0.1304	SXV		•	'n	0.1233	0.0033								
AYS U.2436 -0.0310 -0.0397 U.0346 -0.1768 -0.1304	S AYC		8520°0	m	-0-1233	0.0033					1			
AT' TYNIARY D'TA		0.2436	031	~	0.0346	•	-0-1304							
AT' O VINITUALIA														
and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t								!			7	7.74		
										A 4 4 1	1-17-17-1	4		

13 FEB 75a05133 ID-PRESSOUTO TST-727 PH-1 TN-12..2.01:373

To the second

RULISES 1373

	1			!			ļ			1			ì						ţ	
12	2,5107	0.40.0	-0.2477	26.1	17-612	21001		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000	C 100 0						•				
œ	22.526	0.2667	10070	966.46	•				•	001.0						1				
w	-34.01521.222		2000	000000	CCK = 02 = . 21140 = 2 =	1014074 0010	10000000000000000000000000000000000000	010000	100 T 100 T	1671.0						,				
4	-34.015	-10.53 -10.53	111011		00000	07.00		7000	×17.0-	0.1220						:			:	
m	-12.980	2185-0-	6717.0	7707.0	70°00	04.033	2:5632	2.0.5	-0.0622	0.1843						:			!	
2	28.207						-1.3558	-1.1 (23	0.2526	0.1940						•			1	
[[[ا ا	5	<u>ن</u>	3	٠ ا ا	I PS	O O	OPS	ATC	ATS			1						1	
13	0.1092	-7.4280	1.9246	0,1092	0.4373	0.7772	2711.0-	0.4378	-1.0143	0.2412	-0.2412	-	m	4.3416	4.3415	3.1291	-0.0112	-0.0728	0.0728	-0.0172
11	14.412	20.250	2.1.250	-14.412	201,40	0.4117	0.4117	7907	-0.5065	-C.22#43	-0.2-43	0.5065	12.2320	-10/51-	-1-7214	-2.2320	C•1541	0.1561	0.1561	-0.1591
6	16.971	-4-1377	4.1377	16.91	•	0,3503	E098-09	-1.52.03	9076.0	-1.4199	601601	90.6	0516*5-	·() · [· 1 3	0.7413				0.0942	0-1201
	6.H084	17.564	17,554	•	•	-1.4953	E1.8053	7500.2-	F6.45.0=.	1.3253	-	X 5 6 4 5 X	10.5674.9395	4	4	5546.4 .	10.0757	0.0495	. 0.0995	-0.0167
2	-4.564A .	2.23410.5545.1	0.5545	-4 504F	1.44330		90 -0 1614	1.4343	0.5500	. 201327	2-1322	. D0.55.0-	6.3505 10.567.	-1.5443	1.5963	. 10.567.	. 1640°0	. 0.0060	. 0930-0 6651-0-	-C.UKA1
3	-24.614.	2.2301	2.2301	24.614	- Ec 10 E	. 0651.4	4.1590	-3.0103	-5.7841	1.4657	1,4557	6.7431	6.3505	E 53.65.	-33.049	-6.3505	-0.4193	-0-1599	6651.0-	0515.0
	ر ×	×S	ں ٭	₹	د ر	5	<u>ر</u> ند	1	XPC	XFS	YPC	YPS		HIFS	ں			YAXS		1

PRELIMINARY DATA

COINAL PAGE.

11 13 2 3 4 5 6 6 6 6 6 6 6 6 6	2.	RUN: SEJ 2.01:374	+77.	-										
XC = 8,693 = -9,6701 - 12,477				7	6	11			2	m	3	5	60	12
\$\$ \text{\$ \text				172.477	31.042	-35.843	4.5957		0.9933	-2.5714	-6.7333	-30.264	9	4.0
γς 8.494927142. 5.40μη -35.964 12.940 6.6546 0C -0.0402 0.3168 0.1217. 0.3393 -1.747 γς 8.494927142. 5.40μη -35.964 12.940 6.6546 0C -0.0403 1.22.354710.102 1.0121 1.0102 1.0121 1.0121 1.0102 1.0121 1.0102 1.0121 1.0102 1.0121 1.0121 1.0121 1.0122 1.0121 1.0121 1.0122 1.0121 1.0122 1.0123 -33.629-8.5733 -5.5426 1.0121 1.0102 1.0121 1.0122 1.0123 1.0143 1.01021 1.0122 1.0143 1.0102 1.0122 1.0143 1.0102 1.0122 1.0123 1.0143 1.0102 1.0122 1.0123 1.0143 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0122 1.0	رار د ز	0707 3	•	5.6(149	35.954	12.940	-6.6546	ŀ	16.050	-15.963	9.3812	190.50		
VS 6.49439.6701 -12.477 31.042 35.443 4.5957 US -0.2452 10.0737 2.5557 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10.007 -10	n (0704	-27-142	5.40A3	-35.964	12.940	4.6546		-0.0402	0.3168	0.1217	0.55V	•	
LC 0.7443. 1.6470 0.1542 -1.1434 -1.1097 0.7668 TPC 15.286 9.1050 -24.324 -1.1434 -1.1097 0.7668 TPC 15.286 9.1050 -24.324 -1.1434 -1.1650 0.7453 -0.0473 TPS 35.021 53.633 -33.629 -8.5733 -5.5926 1.2521 0.5755 -5.538 0.7453 1.0465 1.5612 0.2450 -0.7040 0.0085 0.2450 -0.16237 0.0073 1.2673 1.2674 1.1650 0.2650 -0.7040 0.0085 0.2450 0.073 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673 1.2673	ں ر د -	1 T	2019.0	11.4.6.1.	31.042	35.443	4.5457		-(1.2452	1.073	2.3567	100/07		
LS 2-6663 - 1-0504 0-5275 - 5-5538 0-7453 - 0.0473 TPS 36-021 53-633 - 33-627 - 35-752 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.0575 - 0.05)) - -	7644	5254	0-1562	-1-1434	150101-	0.7668		15.286	9.1050	-24.324	JIMOUT :	7	
1. 2 - 670 - 1 - 650 4 - 6 - 6575 5 - 5538 0 - 7453 0 - 0475 0 - 04449 0 - 2650 - 6 - 7074 0 - 0 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 1062 5 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	ں ر ۔ نہ	2 4463	7040	0.5275	-5.5548	0.1453			36.021	53.633	-33.627	6674.80	n .	
120.7443 1.8977 -0.01542 -1.1694 1.1997 0.7555 0PS 1.0465 1.5612 -0.9779 -0.2459 -0.1052 1.89779 -0.2574 1.8977 -0.1522 1.89779 -0.1426 0.2331 ATC -0.0464 -0.1062 0.0818 0.0537 0.0073 1.8977 1.8971 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.2741 -0.27	<u>.</u> د	5000-7	4049	5/25-1).	5.5538	0.7453			0.4449	0.2550	-0.70xt	0-4062		i
PC	را د	45.00.7 	٠		4491-1=	160101			1.0485	1.561	5715.0T	1)-2410		، ر
1.572	n (0.1800	-0-1426			-0-0464	-0.1062	0,0818	0.0537	5.00°0	
FC = 1.576.2 - 1.17.2) 	1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	•	5,721	-0-9473	-0.0×56			0.0561	-0.034	0.0085	0.2489	0660.0-	١
PS 2-9141 0-2211 0-2741 0-7466 0-1426 0-2331 FC 13-033 4-5017 6-2761 5-7139 0-6533 0-1276 FC 13-033 4-5017 6-2761 5-7139 0-6533 0-1276 FS -9-5497 3-6620 4-1170 1-6650 -0-4742 1-2435 FS -9-5497 3-6620 4-1170 1-6650 -0-4742 1-2435 FS -13-033 4-5017 6-2701 5-7139 -0-6533 0-1276 FX -0-0330 0-0370 -0-0747 0-3302 0-2043 0-0407 FX -0-0930 -0-1599 40-0248 0-3336 0-1573 -0-1227 FX -0-0930 -0-1599 -0-0248 0-3336 0-1573 0-1227 FX -0-0930 -0-0370 0-0747 0-3302 0-2043 0-0407	ا ا ا	1.5767		1.5221	0.4473									
FC [3.033 4.5017 46.276] -5.7139 0.6533 0.1203 FS -9.5497 -3.0620 -4.1170 -1.6550 -0.4742 -1.2035 FC -9.3497 -3.6620 -4.1170 1.6650 -0.4742 1.2735 FRS -13.033 4.5017 6.2701 -5.7139 -0.6533 0.1206 IXC -0.0340 0.0379 -0.0747 0.3302 -0.2043 0.0407 IXS -0.0930 -0.1599 -0.0248 0.3336 0.1573 -0.1227 IXS -0.0930 -0.1599 -0.0747 0.3302 0.1573 0.1227	, C	7.9.4	0.221	0.2741	0.7806									
FS -9.5497:-3.0420'-4.1170 -1.6450 -0.4742 -1.2033 FC -9.5497: 3.6320 -4.1170 1.6550 -0.4742 1.2435 FRS -13.433 - 4.5C17: 6.2701 -5.7139 -0.6533 0.1226 IXC -0.0340' 0.0379'-0.0747 0.3302 -0.2483 0.0407 IXS -0.0936' 0.1599 -0.0248 0.3336 0.1573 -0.1227 IXS -0.0936' 0.0370' 0.0747 0.3302 0.2483 0.0407	<u>ن</u> اد .	13.033	4	1912.94	-5.7139		_	-		-				
14C =9.3497 3.6323 =4.1170 1.6550 =0.4742 1.2733 15S =13.033 - 4.5C17 - 6.2701 =5.7139 =0.6533 0.1255 1xC =0.03340 0.0379 =0.0747 0.3302 =0.2083 0.0407 1xS =0.0936 0.1599 =0.0248 0.3336 0.1573 =0.1227 1xS =0.0936 =0.1599 =0.0248 =0.3336 0.1573 0.1227 1xS =0.0390 0.0370 0.0747 0.3302 0.2083 0.0407	. 541	1644.60	£ .	-4-1170	-1.6450		Г							
-13-033- 4-5617- 6-2701 -5-7139 -0.6533 0-1255 -0.0340- 0.03790.0747 0-3362 -0.2063 0.0407 -0.0936- 0.1599 -0.6248 0-3336 0-1573 -0.1227 -0.0936- 0.1599 -0.0248 0-3336 0-1573 0-1227 -0.0396- 0.0370- 0.0747 0-3302 0-2063 0-0407	ن 1	-9.3497	. 3.682J	-4-1170	1.4650									
-0.0350' 0.0379'-0.0747 0.3302 -0.2043 0.0407 -0.0936' 0.1599 -0.0248 0.3336 0.1573 -0.1227 -0.0936' 0.1599 -0.0248 -0.3336 0.1573 0.1227 -0.0396' 0.0370' 0.0747 0.3302 0.2043 0.0407	Ses	-13.U33	- 4.5c17 ·	. 6.2701	-5.7139	-0.6533	0.1255							
-0.0936 0.1599 -0.0248 0.3336 0.1573 -0.1227 -0.0936 -0.1599 -0.0248 -0.3336 0.1573 0.1227 -0.0396 0.0370 0.0747 0.3302 0.2083 0.0407	U X T	-U-039U	٠	-0.0747	0.3302	-0.21183	1040-0							
-0.0936 -0.1599 -0.0748 -0.3336 0.1573 0.1227	AXS	-0.0936	6651.0 .	-0.0248	0.3336	0.1573	-0-1227							
0.0390 0.0370 0.0147 0.3302 0.2033 0.0407	D A V	-0.0930	4651.0-	-0.024H	-	0.1573					-		-	
	2 \ \	0.0390	0.0370	1910.0	0.3302	٦	၁				(C. 4)	TATA		

KUNISEN 1376 KUNISEN 1376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.0112 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376 2.011376

Prince of a

Freedom #

Principle to

The second second

All Manager

ъ	1			13		7	3	4	S	Œ	15
XC 25.864- 7.229	312.135	-55.953	-56.570	5.2504		13.113 -9	.5531		-2.5870	31.206	-7.1833
-15-306.	3.2269		-U. 3876	-8.2542		15.511 -2	1.334	0.1115.	055.51	11.5508	7/100 TT-
YC -15-306 -12-597	3.226A	4.273	-0.3876 -11.		ں ں ت و	-3-2090 E-	2.6756	5 -0.93670.532p	0.5325	1.7751	-0.6924
	12.163		2, 20, BS			103.08	16.30	-34.426	208.46	5,5162	-11.232
004540			0.0161		TPS	5.893	4621	-25.348	-15.950	11.498	17.012
1	7070-	1.0335	0.0161	0.1745	OP.C		3854	-1.0021 2.4684	-2.4664	0.1696	-0.3265
5.3000	-1.1718	~	-3.3055		OPS	6929		-0.1390	-0.4643	0.3347	0.5124
-4.5077	3.0916		-0.4130		ATC	•1232		-0.1330.	-0.0536 0.0736		4
5,01:35	-0.2334		-0.5270		ATS		1379	0.2257	0.0035	766710	7.60.0
5.61.35	767 -0.2334	1932	-0.5270	8644-0-							
4.5077	9160.6- 1915.		0.4150	5609°0=					•		
-16-487.	i i		301371	1071							
20.06/00/60		•	0750.01	16.78.							
2 .961.96. Jdv. 20	5.553' 4.4237	05550	-3-1361	3-1401					;		
0.00.00		***	-0.4616	0.0459	ı	•	:				
2x5 -0-1371	413. 0.0157	0.2122	0.0258	•							
1761-0-		-0-2122	0.0258	C							
U.0630		-0.4445	0.4616	0.0459				•	•		

7	R. P. S. S. C. S. C. S. C. S. C. S.	1378											
!	m	5	-	•	:	13		?	- m -1	4	\$	æ	12
, ,	-6.6855.	-7.5.172	. 1.5612	6.05(10	4041					013.55	O V	44	
SX 2	41-21	• 🏲	10.310	15.670	14.515	'n		24.321	18.748	14.693	2.5465	-7.45(1)	7 0 0 0 C
7 YC	1 • 2	-29.41	10.310	15.670	18.515	-3.2590				-7.6409	2.0104	1.0785	-0.702
>		-7.56.73	-1.5-12	5.4509	1807. x-	6,4413				0. M411	1.1161	-0.9463	-0.446
31 5	.6545	ر. د. د.	1.7435	0.9184	0620.6-		TPC			12.695	1010101	-26.195	+3+5ABF
ر	6136.	• 333	7928.7	1.3053	.0.8570	9.929.0				-11.032	31.302	21.400	-8.535
a. 	7	•0•3£38	3702	7		-0.9235	- ;			0.3521	.2-5-2	-0.7622	0.11.4
5 .	4.5545	-0.2172	560/-1	-	_	0.7927				-0.3211	0.4112	0.5229	-0.253
×	~	4.6004	1139	-0.242	_	0609*0=				0.0954	0.1251	0.1037	0.131
×	397		-I.4633	9.204		-0.2241				0.2379	0.0364	-0.0793	0,161
-	•	\$2.54			1566.	0.2281							
40	7	4.5446	•11 ⁰⁹			0609*0*							
۲	ت. 13	2.8h90	4605.		1.4001	0.1391		1	!	1			
LFS	23.	-55.454	3.2005	=	1.6561	3.1532							
7	-23.873	25.659	3.2005	Ę	1.6567	-3.1532							
	i.	ケルス・	STT. T.	-	-1.4001	n•1391		1		: :	:		
X.	\sim	5470°0-	0150.0	901.0	0.0731	\$050 • 0							
Ä	.225	N.	0.0004	-101.0-	0.1906	6.0595							
14 AYC	.225.	134	0.000	61n1•n	0.1906	٠	 						
A	3674°O	-0.0245	-0.0510	0.1060	-0.0731	0.0904							
								•	PRELIN	PRELIMINARY	DATA		
-	OI OI						:	!			1		
	IG F												
	50 IN												
	OR	4											
	, 0	. 1											
	Ų										1		
	ge ali	GE											
	LD.	1											

Propertions

2.0	.011379			! ! !			!						
		.	•	•	<u> </u>	13		~	m	•	S	80	12
	•	•		ı	i i		•			25 0 26	52.861	26.93	2.19
٠	•	54.467	-R.3979	24.530	-6.7462	6.5748	ن د ا	1.4/6%	-4.25f0	-62-62-	15.517	7.7553	
S	•	30.145	-17.326	-63.272	9516.0	31.084	۸ ر -	7167	-0.5071	-2.2809	5.0606	-1.1759	-0.917
، ں		30.195	926-11-	512.69	4.154 4.7443	#20001C=) v 3	0.8498	2.9724	2,1308	5.0975	-0.7360	
;	700.7		0.5544	71.46	0.9676	0.3410	190	8.5733	15.219	-2.320]	-14.222	-12.627	
	2.193.	3 4 4 4 5	27.44.01	1 × 1 7 · 5	-1.7565	-1.2561	TPS	-0.59A1	168.48	-84.071	42.401	-12.893	
2	1000	. 4444	7	10175	-1-7655	1.2641	OPC	0.2495	0.4430	-0.057	-0.4140	-0-3076	
ر ار در	1.000 m	2-2179	77.0	1145	0.9576	0.3410	OPS	-0.0174	4.9040	-2.447	1.2342	-0.3753	
, L	F-6429	2.5047	-2.63	A-2658	-0.0428	0.5532	ATC	.0.0769	-0.0915	0.0927	-0.0403 0.0403	0.1546	
	'n	٠.	•		•0°0193	-0.4667	ATS	0.1550	-0.1110	-0.0439	. 0.3817	6677 OF	
- APC -	. 5	30x6.0			-0.0133	0.4667							
	4.64.29 ·	2.5342	_		8270.0	0.5532							
is LFC	- 861.73	•	Ť	-3.0783	0.1572	-3.1357	!						
- 547 5	-5/43/4-		<u>`</u>	\$150.0-	-0-1543	-1.5533							
- 3dr 51	27.374.	1:054.6	T,	0.0010	-0-1543	1.500.50							
Š	42.773.	-6.3314	m	-3.0783	-0-1012	100 000							
AXC	.0.2595	·0.4033	<u> </u>	13.2730	*0*0*O*	Š :							
· SAB 31	. 21 para.	7.5344	7	-0.5047	-0-0143	0.2339				1	ATAR		
	2100	.234	-0-17	0.5047	-0-0143	-0.2339			TOTAL AND THE PROPERTY OF THE PARTY OF THE P	1. A.R.Y.	1.4.4.7		
To AVS	0.2695	0.4033		0.2736		0.0223				,			

		12	6.4156 -9.5208 -6.1138 -6.3375 -6.3375 -7.37 -0.7737 -0.6645 -0.1757
		æ	1.6979 24.185 -1.1469 -1.1469 -1.1469 -1.1469 -1.3492 -1.3492 -1.3492 -1.3492 -1.3492
ĵ		\$	42.130 4.3531 5.5140 5.5140 -3.3594 -5.5331 0.5257 0.5257 0.5257 0.5257 0.5257 0.5257 0.5257 0.5257 0.5257 0.5257 0.5257
4		4	-10.453 -2.8032 -1.0516 -1.3312 -1.3312 -1.3312 -0.1611 -0.0512
553		: : m :	
13 FEB 750U5133		2	9.5903 12.237 12.237 12.524 1.86.524 1.86.524 0.20.57 0.1696
F.			TTO COO COO COO COO COO COO COO COO COO
		13	41.413 41.747 41.747 41.813 0.4503 0.4503 0.4503 1.2553 1.2553 1.2553 1.2553 1.2553 1.2553 0.3593 0.3593 0.3593
10-PRESSUUTO		11	10.542 10.542 14.142 14.142 14.1432 14.1434 14.1434 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343 14.343
0		•	3.2807 3.2807 3.2407 3.2407 3.2407 3.2407 2.4907 4.2202 4.2202 6.02052 6.02052
1881			0.000000000000000000000000000000000000
-122.0	1381-	ĸ	36.240 32.111 32.1111 32.1111 32.1111 5.55.1111 5.55.1111 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55.45 6.55
151-727 PF-1 TA-122.01:38	RUN: SEG 01:361	•	11-215-33 11-215-33 27-765-3 27-765-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 11-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3 1-15-3
151-727	2.	•	\$ \$ 40.5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Total and

Ĺ

2.0	2.011398 - (.2.7.0	o										
			. 6	ויי	E1	;	· ~	· •	**	5	80	
• ×	-2-6327 . Tol744	-2.3410	25.735	-0.3415	-36.355	2		-3.3395	-21.351	11.640	-5.7937	4.35
	542	-10.763	-14-575	16.793] h • (e] =] b • 7 4]	ر د د	-1.7231	-0.6810	-3.0.444.	0.40439	-2.2334 -0.8650	-1.359 0.950
1	-	2.3410		0.3415	6546.45	Z O L	1975. 8	74.355	24.524.	5.1539	22,330	.8.0.
ر د د ا	C.C464-60.4533	2051.00		0.6154		TPS	6.1507	18.RUA	-24,378.	-30.439	0.050.0	0 0
		2748.0		9519°0	•) (100)	667.100	0.5475	-U. R263	1945K.O-	1936	200
į		761 870		0.27.0	0.2293	ATC	0.0207	-0.0574	0.3356	0.0232	-0.1550	
2 xFC	5.9105 1.4455	-0.150		-0.33%2		ATS	0.1306	V4.C.O.	0.6633			
S APC		0514.00		0.0676								
20.21	3.42307 -1.624.3	3/4/	16.74.E.	1.6380		•						
15 170	-22-623 20m316	5.4175	-4.0163	0.3400	-							
7876	-22.423 2.8314·	~	4.0763	0.3408								
5 + 7.	٠,	•	-3-8-51 -3-6-6-6	0 to 0 to 1	1767-17	!		i 	1			
,7 AXC		75 TO 10	1107-0	75.00								
SYPK	•	4075 CT	# 1 1 0 ° 0	951100	161100-					ACTOR	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
(A A V	0.0010 0.0505		0.20	-0.0119	-0.3345			J. Ge. S	CAP C	するなどとなっている		
2000)	,		,								

2.01397 XC 10.043 = 7.2633 = 6.9771 = 1.3049 19.292 = 0.0432 1C = 13.612 = 7.7311 = 32.750 13.202 10.043 = 1.2633 = 3.5472 13.472 13.473 12.754 10.034 15 = 13.495 = 10.737 20.745 10.043 15 = 13.495 = 10.377 20.745 10.043 15 = 13.495 = 10.377 20.745 10.043 15 = 13.495 = 10.377 20.745 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10.043 10		ACK SEC	RUNISEU 13 34		•			2						
x		01139	+	· · · · · · · · · · · · · · · · · · ·										
XC 10.043 = 7.2633 = 6.9771 = 1.3049 19.292 = 0.0432 1C = 13.612 = 7.7311 = 32.750 13.202	;	: : •	•	~	•	11	13	:	~	· •	· • • • • • • • • • • • • • • • • • • •		100	12
XS = 0.6453 3.5472 13.443 21.990 -5.6354 1.0634 0C 0.9121 -0.3102 -2.5526 0.4028 YC = 0.6453 -3.6072 13.453 -21.990 -5.6354 1.0634 0C 0.9121 -0.3102 -2.5526 0.4028 YC = 0.6453 -3.6072 13.453 -21.990 -5.6354 1.0634 0C 0.9121 -0.3102 -2.5526 0.4028 YC = 0.6453 -3.6072 13.453 -21.990 -5.6354 1.0634 0C 0.9121 -0.3102 -2.5526 0.4028 YC = 0.6453 -3.6072 13.453 -21.490 -5.6354 1.0634 0C 0.9121 -0.3102 -2.5526 0.4028 YC = 0.6453 -3.6072 13.453 -21.430 -5.6352 -0.6432 0C -4.3494 -1.7523 -1.6431 YC = 0.6453 -3.6072 13.433 -0.4432 0.6432 0.6434 -1.7633 -0.0244 0.5533 -1.0244 YC = 0.6453 -3.6072 1.0433 -0.4432 0.6432 0.6434 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7633 -0.0244 0.5534 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 -1.7634 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434 0.6434	,	1.063	7.362	-6.9771	6308.	14,242	CE50"0"	10	-13.612	-7.7311	-	13,202	1.9264	0.2217
YC	بر و د په	- ∵	A 6.17		(05)	+5.0°5.	1.634	18	-13.435	-8.3503	-34,197		7.1344	2-75-5-
VS = 10.9-37.2-833	; ; ;	0.6453		14.453	; =		-1.0634	ပ	0.9121	-0.3102	-2.5526		1.1767	-0.5304
LC 0.5225 =0.0537 =0.0537 =0.0154 =0.0432	>	10.0	-7.2433	5,977	-		-0.0432	SO	-3.6282	-1.5023	-U.7158.		0.4370	i i
LS 1-40017 -0.5437 -0.0154 1-1494 -0.3449 TPS 25.587 75.555 -105.54-35.157 40 1-65037 0.5437 -0.0154 1-1494 -0.3449 CPC -4.3494 -1.7623 -0.0077 0.5513 1.5 1-1224 0.5499 CPC -4.3494 -1.7623 -0.0077 0.5513 1.5 1-1224 0.5255 0.7449 CPC -4.3494 -1.7623 -0.0077 0.5513 1.5 1-12249 CPC -4.3494 -1.7623 -0.0078 -1.0244 0.9251 0.727 0.7254 0.7254 0.727 0.0244 0.9251 0.727 0.7254 0.727 0.7240 ATS -0.0439 -0.0635 -0.0244 0.9251 0.727 0.7340 ATS -0.0439 -0.0635 -0.0043 -0.0244 0.9251 0.7340 ATS -0.0439 -0.0635 -0.0043 -0.0244 0.9251 0.7340 ATS -0.0439 -0.0635 -0.0043 -0.0244 0.9251 0.7340 0.7122 0.7340 0.7340 ATS -0.0439 -0.0635 -0.0043 -0.0244 0.9251 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7340 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440 0.7440	-	0.5255	#6 \$1.0 °C		.3333			TPC	-150.40	-60.545	-0.265n		-55.427	
16 66197 U.5317 1937 0.0159 1.1494 U.9469 UPC 46.3894 1.7623 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0234 1.0	_ د	71:17	5327		5153			TPS	25.587	75.555	*105.54·	•	209.02	
FS = 0.5270 - 0.0537				768 (101-	1153			OPC	-4.3494	-1.7623	-0.0017		-1.6134	74 (1.0)
APS = \$5.00415		i		000000				CPS	C.744X	2.1935	-3.(1720)	•	7.68.5°	1) • 260
AFS = 5.00646			-3-4761	51.53.15	0.7122	6926-1-		ATC	-0.0415	0.6073	-0.0244		-0.0.12	0.0574
YEC -5. here: -0.4704: 0.4342 -2.7970 1.5534 -0.7340 YES 1.2249: -2.4241 1.4392 0.7122 1.2330 0.0948 LOC 2516: 6.7481: 1.5573 11.537 -5.4246 3.0900 LOC 2516: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.7481: 6.748			. 470	(1.44.4.2)	2.7970	10.734		ATS		-0.0635	· \$+00°0-	-	0.44250	-0.0-0-T
TPS 1-2245 =2-4241 1-4345 0-7122 1-2450 0-0948 1PC 2:-516		•	•	ت	•	1.0534	=							
10C 2.516. 6.7481. 1.5573 11.137 -5.4286 3.0500 LDS 5.6774. 9.9137 -9.4354 -3.4968 -9.2745 -1.8351 40C 5.6776 -9.9137 -9.4357 3.4596 -9.2745 1.8351 40C 5.6776 -9.9137 -9.4357 3.4596 -9.2745 1.8351 40C 5.6776 -9.9137 -9.4357 11.137 5.4246 3.0960 EXC 0.04240.0378 -0.4357 11.137 5.4246 3.0960 EXC 0.04240.0378 -0.4357 0.4357 EXS -0.1146 0.00378 -0.4367 0.4357		•	?	_	.7122	1.2830								
LPS 5.6774 9.9134 -9.0344 -0.4448 -9.2745 -1.8361 -pc 5.6770 -9.9134 -0.039 8.4968 -4.2745 1.8361 -pc 5.6770 -9.9134 -0.039 8.4968 -4.2745 1.8361 -pc 5.6770 -9.9134 -1.5573 11.0137 5.8246 3.0900 -pc 0.0324 0.0378 -0.0378 -0.0554 0.0329		2.0516	5.74A	. –		-5.4246				i	!			
- μρς - 5.6770 - 9.9[37' - 9.0]37 - 4.4968 - 4.2745 1.8361 μρς - 2.5.514' - 6.7431 - 1.5573 11.137 5.4246 3.0900 μρς - 0.0424' - 0.0378' - 0.0573 11.137 5.4246 3.0900 μρς - 0.0424' - 0.0379 0.0329 0.0329		!	5	A	4.40E	5716.60	-	i i						
LKC 0.0424 -0.5573 11.137 5.4246 3.0900 LKC 0.0424 -0.0378 -0.0668 -0.0940 0.1318 -0.0270 LKC 0.0424 -0.0378 -0.0668 -0.0944 0.0329			6.6	vein o-		5717.5-								
EXC		•	5.7	-1 .5573	11-137	5.4246						1		
AKS =0.11*6 0.0035 0.1108 0.0554 =0.0944 0.0329			-0.037e	-0 Octo		9181.0	•)						
0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000		0	0,0035	001100		4480.0.								
ACCOUNT TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR			•	8011.0	4540.0-	44KO.C.	-0.0329				7.72	A TT A		
5 -0.0424 -0.0376	A	. 9760 0		10.USSF	•	-11-1316			d	RELINA	TAKE T	WIW.		

A section of

Park Manager 6

a continue of the

-

1

A to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of

.

151-72	151-727 PH-1 TN-122.011400	122.0	00711	d=01	TO-PRESSOUTO" -		13	13 FEB 75405133	133	PAGE 46	94		
_	RUN1 SEO	1400											
2	2.01:400												
		•	1	•	- 11	13		2	M	•	5	30	12
	0.043.0	.020.19	-A-1475	410.15	9.1955	10.703	7	3.6555	-2.8993	-10.619	-10.6199.4265	11.740	18.
7	18.634			13.364			15	25.340	1.0625	-6.4292	25.962		3 0
\ \ \ \		477	9.4482	-15.364) 0	0.2771	1.2323	-2.2013	-1-5440	1.07.11	2 -
· · · · · · · · · · · · · · · · · · ·	- 5090 5	61.130		-21.014			S	1.333	-0.8363	1.3360	2060-0-		
ان د	. p. 701	F . 5553	1.2161	1.1770	-1.5472	-(-) 0 31) 1 1	000 00 00 00 00 00 00 00 00 00 00 00 00	42°082•	040 741 040 741	7 TO 10 TO 1	7.01.04 7.044	100
4	-1-1232.	1270.07	1671.0	0.3149			27.5	-04-173	766197	00490C#		9046 01	
ن د	-101232	7.0421	0.7497	-0.3149			ر د د	-2.4104 -2.4104	1607.0	20000	0000	1517	
× ×	•	F. 5553	-1->141	101170			700	2489.		461191	26.26.22	-0-0122	
A APC	4.1632.	110233	-3.4533	551500			٠ ۲	7260		9080	. 0.1257	0.0610	
SdY o'	- Ju 6.0.1.	S . 34 . 1	-2.1 Hts	1.2/43			۸ د	0241.0		00000			•
		Lenves	-2 -1 C4H	-1-5/43	•	_							
Sax 21	1642-	111-237	11.4530	C. 6133	1881.0	-1-43/3							
יז רטכי	>1.5.16	4101.4					:			-			
SAT FI	61.00.15	01.3.5.	169696	. [. [.]	-	ا ا ۱۵۰							
) i	61.676.	, 410.30.6	1676.0		•								
Sa. 31	-31-256"	4.7614	-11-374									† † †	ì
) 1xC	こうけんじゅこ	0-20.15.	101110	11,100-	11.122								
IF BAS	7.1810.	0.0356	. 0.0620	9.1.65		•							
) 9 la l · O	9986.00	0.0620			00020					!		
S F F Y S		\$107.0-	0.1093	-0-1411	-0-1227								
))										VY:	THE THE STATE DATA	4	
	•								-			1	1

3 3 5 6 1 1 1 1 2 2 2 0 1 1 1 1 1 1 1 1 1 1 1 1	#UNISEU [40] #UNISEU [40] 2.011601 2.011601 # KC . 5.3596- 7.7145; 4-1244 # KS . 5.0102- 12.033; h. 1734 # KS . 5.0102- 12.033; h. 1731 # KS . 5.0102-
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1

ORIGINAL PAGE IS OF POOR QUALITY

ე•z	2,011405											
1	3 5	7	6		13		. 7	m	4	ا	οc	12
,	\$UL-102779-6	9168319	-12.537	17.552	1654.4-	7	5.4745	13.902	-11.923	21.443	-4.8639	-7.3771
	1.	1.	4.3253	-1.2382	7.6149	18	-2.5020	-2.4175	-11.222	25.290	4.3(1)	201107
) •) (>	10,638 10,959	. 5	-4.3283	-1.2932	-7.6189	00	2.6187	-2.3055	-1.0948	3.7722	#0.8453 0.00	0 34 0
	9.6443. =21.7		-12.537	-17.652	7654.4-	0.5	-1.4591	0.7422	-0.9227	1,5022	110000	2 2 2 E
, .		٠	-11. NOUS	-2-1534	-0.3234	TPC	-45.26B	-51.772	130.73	561195	1960.4	7.1.0
	•	•	\$469°	0.4329	0.7059	TPS	194.44	219.52	-182.96.	83.207	3.5224	3.000
ייי ננ	•	1	4664.1-	0.8329	6501.0-	OPC	-1-2304	-1.5070	3.8052	9.1664	-0.2305	0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1	٠,		10,200	2.1534	-0.3734	SAC	1.3000	6.3897	-5.3257	2.4220	<201°0) () ()
	7 7	177 -5-26-61	1.5363	0.4121	1.27.22	ΔIC	0.0110	0.1013	-0.0098·	0.1879	5501.0-	× 10.0-
× × ×		· -	1.4529	0.4554	-0.5134	ΔTS	-0.0329	-0.0354	. 6060 0	0.0757	0.1659	0.135
'	11-112 3-00.20	-	-1.4529	0.4569	0.5134							
× 5 ×	3,44324.1971		-1.5363	1214-0-	1.2422							
	''		9.4082	-2.H237	9561.7-	!						
1	_	ľ	A 11.11.10	116.0	•							
	-16.535 -13.040	•	6250.4	0.971								
		21.3841-4179	9.40F2	2.6237								
i	•		-0-1201	0.1017	ŧ							
			0627°U-	-0.0523							,	
, AYC		•	0.620.0	-0.0523	_				ATAT-7357-7ATA	年ははず	A-TA	
-		٠.	7071-01-	-0.1017	6640.0-			F	11 11 11 11 11 PM	4 4 4 5 6 7 6		

	RUN: SEY	1584											
i	8	\$		5	=	13			3	7	5.	20	12
,	. x460	. 666	5 1012	11,267	1.4570	7-6401		7.8554	-1.2921	2.3465	12.695	#906*C=	-17.596
ماد ماد		.5986.6	10.342	1464 0	;	1.2104	15	6.0237	-54.360	t		30.677	6.613
٠ ۲	0.0479	-2.4359	10.892		-4.8036			-1.5863	1.1211		1	-(.∗]505	7.0
بر ح	4.075H-=1	#15a133·	-5.1'132		-1.4570			-1.0139	-4.03AH	5.6935.		1691,011	
	0.4757	0.5331	2111.0		-1.1 ⁸⁹ 2	-0.3778		-63.212	-5.4497	-35.154		ケスシャケー	0.0
بى د ب	-1.3309.	0.6775	-0.1959	-1.6030				92.246	-56.593	-15.153	11.75	4779 + 9 = 1	V C
ب ن ن		-0-6725	6561.0-	1.5.130	1956.	-0.4633	,	-1.7527	-0.1586	-1.0524			
· V.	-01.4751.	0.5391	61110	-0.9324	1.1442	-0.3778		2.6451	-1.9384	-0.4411		1970年の日	
Lax	3.3340		-2.6/33	-0-0121		-0.2106		-0.0744	-0.1794	0.2319		704T-0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sdx	2.3606.		6640.6	6604°0=	0.4427		ATS	0.0793		1511.0	#060.4D#	7.1.	⊣
YEC	2.360h			0.60029		0.3007							
758	=3.3940	1010.0-	5.6199	-0.0121	0.4715	-0.210h							
ر 1	-16.933·	-5.2(.33	14.221	-2.6bgb	•	-0.5450	!						
Sal	10.559	2.267h	-8.0 ² 26	1.1998	-2								
SPC	10.659	-2-2678	-8.0426	-1-1996	ì	-							
Said	14.933	-5.2033	-14.221	-2.6696				i :				:	
AXC	-0.0372·	-0.0747	99000	0.0418	0.0457	160.0-							
AXS	0.0569		0560°0	-0.0414	-0.0359	0.0225							
AYC	0.0509	•	0.0950	0.0414	-0°0369	•	:	!	1		A CT TACK	V-L	
AYS	0.0372	.03720-0747	0.0066	0.0418	-0.0457	-0.0917			127	DECLINATION DATE	PKI DA	4	

P. Proposition 1

Section 1

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

and the same

And Management

ORKINAL PAGE IN

17.415. =12.106		
-17.41h12.1064.6943 -2.2649 12.046 -4.7575 TC 29.469 26.72 -14.7071.06280.3242 7.3153 8.2151 2.6444 OC 3.9353 0.350 0.350 0.00221.06280.3242 -7.3153 8.2151 2.6444 OC 3.9353 0.350 0.00221.06280.3242 -7.3153 8.2151 2.6444 OC 0.2556 0.350 0.00221.06280.3242 -7.3153 8.2151 -2.6444 OC 0.2556 0.350 0.00221.0169 0.00221.0169 0.00221.0169 0.00221.0169 0.00221.0169 0.00221.0169 0.00221.0169 0.0022 0.0023 0.0022 0.00221.0169 0.0022 0.0023 0.0022 0.00221.0169 0.0022 0.0024 -0.0096 0.0024 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.0022 0.	4 5	8 12
-14.7071.06280.3242 7.3153 6.2151 2.6444 DC 3.9353 0.300	1.849335.638	2.8195
-14-707 1-0628 -0-3242 -7-3153 8-2151 -2-6444 0C 3-9353 0-300 0-0022 -1-16-17-10639 -0-3242 -7-3153 8-2151 -2-6444 0C 3-9353 0-300 0-0022 -1-16-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-17-10-	-10.584. 63.401	34.657 -
17.416. 12.10h. 4.6443 -2.2649 -12.646 -4.7575 05 0.2556 0.997 0.00220.1997 -0.4575 1.0555 -1.32417 0.0643 TPS -52.579 84.53 0.8341. 1.9344. 0.8714 0.0602 -1.2417 0.0643 TPS -52.579 84.53 0.8341. 1.9344. 0.8714 0.0602 -1.2417 0.0643 TPS -52.579 84.53 0.00220.1949. 0.9576 1.9655 1.92417 0.0643 TPS -52.579 84.53 0.00220.1949. 0.9576 1.9655 1.92417 0.0643 TPS -52.579 84.53 0.00220.1949. 0.9576 1.9655 1.92417 0.0643 TPS -52.579 84.53 0.0022 -0.1949. 0.9576 1.9655 1.92417 0.0642 ATS -0.0903 0.025 0.025 0.025 0.025 0.7713 0.6422 ATS -0.0903 0.025 0.025 0.7713 0.6422 ATS -0.0903 0.025 0.7713 0.6422 ATS -0.0903 0.025 0.025 0.7713 0.6422 ATS -0.9249 -0.095 0.7713 0.6422 ATS -0.096 0.095 0.7713 0.6422 ATS -0.9249 0.095 0.7713 0.6422 ATS -0.9249 0.095 0.7713 0.6422 ATS -0.9303 0.0025 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.095 0.	0.0758*-4.1494	2.2073
0.0022 -0.1997 -0.4975 1.0055 -1.3241 0.649 TPC -41.139 85.46 0.0022 -0.1934F 0.8714 0.0602 -1.2417 0.0683 TPS -52.570 84.53 0.6341 1.934F 0.8714 0.0602 -1.2417 0.0683 TPS -52.570 84.53 0.6022 -0.1994 0.8714 0.0693 0.0683 TPS -52.570 84.53 0.0022 -0.1994 0.8714 0.0683 TPS -52.570 84.53 0.0022 -0.1994 0.8714 0.0632 0.0249 TPS -1.5302 2.460 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0.025 0	-0.6448 2.5723	1.00.70
0.8341. 1.9348. 0.8714 0.0602 -1.2417 0.0683 TPS -52.570 84.53 0.8341. 1.9348. 0.8714 0.0602 -1.2417 -0.0683 GPC -1.1975 2.487 -0.6022 -0.1995 0.8576 1.9655 1.9241 0.8419 GPS -1.5302 2.460 -7.4001 1.7456 -1.5703 2.2410 1.0599 -0.1680 ATC 0.0903 0.025 0.7534 1.6521 -1.5101 0.5262 0.7713 0.6422 ATS -0.0244 -0.096 10.7534 1.6521 -1.5101 0.5262 0.7713 0.6422 7.4001 1.7456 1.703 2.2415 1.6909 -0.1980 -34.478 10.935 -4.5637 9.0102 3.4654 2.0470 -34.478 10.935 -4.5657 9.0102 3.4654 -2.0470 -34.478 10.935 -4.5657 9.0102 3.4054 -2.0470 -34.478 10.935 -4.5657 9.0102 3.4054 -2.0470	-15.694 35.547	10,435
0.6341. =1.9348 .0.4714 -0.6002 =1.2417 -0.0683 GPC =1.975 2.487 -0.6022 =0.1995 0.9576 1.9655 1.9241 0.8419 GPS =1.5302 2.466 0.022 =0.1995 0.9576 1.9655 1.9241 0.8419 GPS =1.5302 2.466 0.022 =0.7534	7 -25,384' 4,7851	2,,00,,2
-0.60220.1994. 0.9876 1.0655 1.9231 0.8419 0PS -1.5302 2.4607	0321-1-1396-0-	2979
-7.4601 1.7456 -1.5703 2.2419 1.0599 -0.1680 ATC 0.0903 0.0255 0.7534 1.6521 -1.5101 -0.5262 0.7713 -0.6622 ATS -0.0244 -0.0964 0.7534 -1.5521 -1.5101 0.5262 0.7713 0.6622 ATS -0.0244 -0.0964 0.7713 0.6622 ATS -0.0244 -0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964 0.0964	-0.7660° U-1393	
0.7534	-0.0073' 0.1147	0.1391
6.7534. 1.5521. 1.5101 0.5562 0.7713 0.6622 7.6031 1.7456. 1.5103 2.2415 1.6009 -0.1560 10.7007 4.6599. 9.9184 -6.6102 -5.5179 -2.7272 -34.478 10.9354.5837 9.0102 3.4054 -2.0470 -34.478 10.9354.5857 9.0102 3.4054 -2.0470 -0.7007 4.05949.9184 -6.5102 5.5179 -2.7272	0.0171. 0.0757	0.1611 0.0
7.4001 1.7456 1.54703 2.24;5 -1.0309 10.705 4.6599 9.9184 -6.6102 -5.5179 -34.478 10.935 -4.5857 9.0102 3.4054 -10.700 4.0598 -9.9184 -6.5102 3.4054 -0.6865 -0.1473 -0.0318 -0.0279 0.1160		
10.705		
=34.474'=10.335'-4.5437 -9.0102 3.40'54 -34.478' 10.935'-4.5457 9.0,02 3.40'54 -10.700' 4.059*'-9.9184 -6.5102 5.5179 -0.0865'-0.1473 -0.0318 -0.0579 0.1160		
-34-478 10.9354.5457 9.0102 3.4054 -10.700 4.05989.9184 -6.5102 5.5179 -5.5179 -0.0279 0.1160		
-10-700' 4-059"-9-9184 -6-5102 5-5179 -0-6865'-0-1473 -0-0318 -0-0279 0-1160		
-3.08650.1473 -0.0318 -0.0279 0.1160		
	•	
32 0.1046 -0.0060	•	
-0.1616- 0.0872'-0.0320 -0.0732 0.1046 0.0060	ATA CT	ATA-

RUN: SEU	RUN: SE 3 15 46					!		:				1
		, ,	o,	11	13	:	· ~	m	: *	•	æ	12
	0.86.0.5830	-11.561	4.1126	-4.4437	-10.349	10	6440.6	10.027		-37.693	-8-1946	-4.0473
	-14-53011-564.	3.0589	9359	,	-9.4224	. 1 5	10.505	1.0193	10.619·13	-37.162	-20-115 -6.7140	,
, I = 0, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	-19.536' 11.556'	3,0589	7.07.70 4.11.00	14.552	9771.6			1.3069		-3.4091	1.1522	0.477
	0.6624 2.8427	D. H.173	0.8454	_	-0.532A			-33.496	26.052	-1.3770		-7.17
0 51		0.7546	0.6790		1.1525		-105.40	135.11	~ ⊂	8.077'-14.422	-3.3470	\
1	•	n. 7546	0.079.0	î	-1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			3.9613	.0	961400-		0.4495
	0.0624. 2.532	1.8257	0.8380	7	.C.0594		-0.0061	0.0476		9411.0.	-0.1025	0.05 0.05
		0.6364	0.6652	7	-1-2034	ì	0.0256	-0.1037	.95(0.0	0.0744	-0-1318	0.065
	6.9553 -0.9169	0.6363	2599.0-	•	1.2.34							
5 SOA LI	5-18030-3902-	1.4257	-0.2546 -0.2546	1.7576	֓֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓							
	40.410. 4.0400. 4.9115. 0.0400.	• .	2.5701	5-00-33								
•	9110	•	-2.5701	-5.0633								
•	.615.		4.5024	600.01						1		
17 BAC -0			0.0378	-0.0575 0.0575	60.0							
	•		-0.0675	\$001°0	•							
	-0.1566 0.0626	ِ ر	0.0675	0.100		!	-					
1	3.0057 0.0423	23 0.1017	0.0378	0.0376	2690*0*			S.d.	HIMIN	PRELIMINARY DATA	\ T.\	

T

ではいから

1000

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

Free Section (

7.	2,(11594												
		2		6	11	13		2	M	3	\$	20	
,	-3.1480.	•. 661E°E	.3.9231	11.783	7.6320	ı	֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֓֞֜֞֜֞	-7.8974	2.7407	-12.440.	-12.572	-6.0931	3.93
2 x S	5.65.3	•	• 💊	0.0634	7.3145		- S	-1.1612		1340040	-1.6699	0.6689	כיו
\ \ \	18.543. el	427° 11-	~	-0.4634	7.9145		ب د د	62.2.0		3.2525	0.3508	1,0390	-
√ . ≻	3.1689.	•		11073	66.6320		101	F. 100 [•		11,105.	S	-7-7758	•
	0.2076		2014-0-	0114.00	11.4.0	-0.4312	TPS	176.65		-30.837	-31,635	0.4552	•
<u>ر</u> .	•	0.4443			-1-1309	0,4312	SPC	-2-4220		0.3250	O 3	26.2263	í , í
- N	6.2870		2(14.0)	-0.5716	-0.4911	•0•419F	Sec	-1.7449		0.0232	-0.01525	-0.0671	2
Jex 4	-4.7936.		-0.4577 0.0.	1 • 4 4 4 3	06240II=	0.0113	A 1.5	0.0342		-0.0305	-0.0647		
Sdx o	2-1533	1.00.37		10.50	7 2 2 2 2 3 2 7 7 7 7 7 7 7 7 7 7 7 7 7	0.6926) - 						
ر د ر د ا	2-1533	1.7093	0.577	1.04.43	0.5256	0.5113							
ر د د د درج	-1-4250	7. 731 2.	6.4534	3 - 4 3 3 3	0222.0-	-4.0916	:		:				
	-22-34h	5.7244.	-1.7773	26/0.6-	-3.4155								
in de la company	-22-346.		-1.173 -4.534	2610.6	051446							:	
Sax と	1 - 4270	10.3336	40.00.0	00010		0970-0-		1		ATAU TONTE	TANTA	A	
7 X X X X)	4840 O	-0.0444	-0.0140					मिस्स	A CONTRACT	1		
) A A S	•	0.0584	4440.0-	C.O. 40		P	!						
S A 7 CL	٠.	-0.0234	-0.0104	0.0093	-0.0481	-0.0260							

	3	4462 -7 (56) 4-7524 491 - 1-7431 -8-9151 3012 -0-1150 -0-1086 150 -0-0541 -0-3293 4373 -11-355 -5-1607 9675 -6-3137 20-502	0.1836 0.1836 0.0854 0.0305		FEET TINARY-DATA		
PAGE 53	4	3 -32.659, 9.4462 1 -25.539-9.491 9 -3.5611 1.3912 3 3 -2.816U 0.4150 4 2 -11.294 -9.4373 7 7 -10.599 -3.9675	0 -0.3289 -0.0 1 -0.3173 -0.0 0 -0.0317 -0.0 13 -0.1245 -0.0		TEU.		
R 75905133	2 3	-6.9955 0.0373 -5.7763 -18.191 -0.7035 -0.0539 -2.3538 0.3333 -10.175 12188	-30,716 3,5450 -2,4518 3,5450 -1,1317 0,9471 -0,0415 0,0403				
13 FER	13	15 20 20 17 20 20 20 20 20 20 20 20 20 20 20 20 20		4.1755 -0.6411 4.1745 -0.1042 0.0450	-0-1042		
In-PRESSOUTO		4.5938 0.3225 0.3228 4.5938	1.7355 -0.2127 -1.7555 -0.2127 -0.3302 0.3302 0.3302 0.3303 -0.0544 0.33913 -0.0544 0.3564 1.5758	3.33.33.43. 16.24.61. 16.24.61. 16.43.43. 16.43.43. 16.43.43. 16.43.43.	•		
.01:595	6	5.9510 3.5003 3.5003 -5.9510	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	61100000000000000000000000000000000000	-0.0254	:	
151-727 PH-1 TH-122.01:595	5 5	2.4978 - 14.207 2.4958 0.6707 10.602 14.207 10.602 14.207 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.602 10.	100 100 100 100 100 100 100 100 100 100	10.0218°	0	- P	GE TO
751-121 PI	2.01	•		A K B C C C C C C C C C C C C C C C C C C	22	RIGINAL PA OF POOR OF	ALE

Management of the second

And Stronger of the B

Section of the second

en utation for de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitució

Account of A

to our many

*

The same of

Constant of

Town services

Programme and

	RUN: St. 1 /5 8C	1586				!							
	•	; ;		3	:	, ,	; ; ;		ं •	, 4	'n	30	12
	•1	n	•	•	:	1		,)			1	
×	-5.4933.	-13.104	-24.034	-6.9275	-0-9671	-10.973	ب ا ا	16.284			11,113 -44,312	-10.793	H
×	-17.002	,	764016	-17.611	a().5r46			9.0417			-11.45	12.50	
ن خ :			21.497	17.611	-0.5846			3.0961			1150.6-	10.000	
,	TACK.		24.034	-n-9275	0.9571		-	0.7137			*/ HZ*G=.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	-1.6134	4.1334	41-0-14	1.2492	-1.5.137			2.9242			-2.7244	650.75-	•
 _	-1)-3761.		10.4.407	0.6508	0.6733	-0.4942		-117.37	144.42		733-565	4.0540	2.1645
	1676.0	056.04	0.4467	-C-6508	0.4033			0.0951	0.1606		0.0793	-0.7774	• ;
	- C - C - C - C - C - C - C - C - C - C		ı	1.24.42	1.2031	-0.3943	CPS	-3.4164	4.2037		6925.0-	0.1150	K-1-2
X L C	7.1174	655901		7.10.1			ATC	-0.0061	-0.0201	-0.031	· 0*0110		5
SOX O			੍ਹਾ	1.1078		7	ATS	0.0574		-0.141	0.3063	-0.037R	ំ
	-5.4235	7.	*****	-1-1078									
Sax	7-1123	•	•	2.166.2									
347 ()	31.725		-1.55.35	0.8410									
14 LFS	-210-50	3.9190		-11-752	•	u.							
200 51	->1-458.		0	111.752	-2.5453								
	-31.725			0145.U	•	-2-1430							
7	0.010.0.	£640.00.	31,22°14	-0.0545									
CY AXS	-0.09499-	.Te20.6 .	ċ	-0-1345		ĭ							
OAT SI	0850.0-	-0.022	0	0.1345	-0.0158	7660.0	1						
AYS	20100		0	-0.0545	-0.0209	1					h Z	402	
	•								Ξ.	TIAT I HE	THE LANDARY DAIN	JAIA	

1	
55	
PAGE 55	
•	
00T0 13 FEB 75405:33 PA	
13	
:	
7 In-PRESSUUTO	
1	
T4-122-01:627	
PH-1	
151-121	

Drings. de.

RUNISEY 1627											
	1	6	11	13		2	m	*	5	σε	12
14,955 -19,540)30.607 11.267		32.259 -6.3782 -6.3782	-18-679 33-521 -33-521	52.5	-5.3906 -1 ⁴ .596 -2.8198	-21-438 -19-521 3-3003	-36.128. -15.520. 5.8449	-3.2167 -33.712 -3.1819	3.2000 1.33999 -0.1865	20.00 = 0.4 142 3399 = 9.524] 1665 = 0.8055
.0852.0.625.086.08.09.09.09.09.09.09.09.09.09.09.09.09.09.	j		چ. ــرد	ر د د د د	DS TPC TPS	-133-92 47-52	2. 8027 43.996 3.8547	6.86685 -12.02995 -20.935	-70 C C C C C C C C C C C C C C C C C C C	236	1.3457 -13.644 0.040
-9.05490.7540. -9.89240.9331. -1.9157. 3.5563.	1 =1.6453 1 =1.9667	0.6 711 1.455 0.2253	0 -0 0	0.5956	070 070 070 070	1.3670	0.1122 -0.0659 -0.0171	0.0597	1.5631	0.1702 -0.0840 -0.0818	; • • •
1.94291.867950.569 1.9489 -0.85640.569 1.9157 -3.56340.569 5.062110.765	11,8645; -0,2641 0,856; -0,5641 3,563;-1,965 10,765;-1,1565	0.4749 0.2268 0.2268		• ,							
		-0-1100 -2-5513 -3-2035	•	m m c (;	:			:	
-0.0536' 0.0916' -0.0536'-0.0918' -0.3275'-0.1269'	6. 0.1945 e. 0.1945 e. 0.2367	0.5076 -0.5076 -0.2635	1640-0- 1640-0- 14-2447	0.2950	i I						

PRELIMINARY DATA

ORIGINAL PAGE TO OF POOR QUALITY

1	2.011628	1628					ļ						
= 17.6434. 61.758 = 1.6240 = 19.116 = 70.115 15.157 TC = 94.397 35.365 = 4.9255 75.270 = 23.472 33.044 17.542 = 1.0543 31.0449 72.347 = 16.673 UC 2.3100 = 0.7489 = 0.0055 6.2245 1.0125 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 = 1.00085 0.2245 0.2245 = 1.00085 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245 0.2245											•		
-17.434. 41.758 -11.6240 -19.116 -70.115 15.157 TC -94.955 7.9914 -25.295 72.75.71 -13.554 -7 -33.404 17.7434. 41.758 -11.663 -31.449 72.347 -15.673 TS -24.655 7.9914 -25.295 72.75.71 -13.554 -7 -33.404 17.7434. 41.752 -11.663 31.449 72.347 -15.673 UC 2.3104 -0.4166 -2.64245 1.4133 UC 2.3104 -0.4166 -2.64245 1.4153 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6233 1.6233 1.6233 1.6233 1.6233 1.6233 1.6233 1.6233 1.6233 1.6233 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234 1.6234	3	5	7	6		13			6	*	2	6 0	
= 33.004 7.672 = 11.063 = 31.444 72.347 -14.673 15 = 24.055 7.9014 -25,295 42.771 = 11.053 = 11.063 -31.444 72.347 -16.673 00 2.0104 = 0.7489 -0.0055 6.2245 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435 1.0435	45.4.7.	76.14.	1.62	19,116	-74.115	15.157		-94.397	35,365	-4.9255	7	-23.472	37.39
-33.00H -17.882 -11.663 31.489 72.347 16.673 0C 2.3100 -0.7489 -0.00655 6.2245 1.4159 1.6534 1.6549 1.6549 1.6549 1.6549 1.6549 1.6547 1.6.673 0C 2.3100 -0.7489 -0.00655 6.2249 1.6259 1.6250 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259 1.6259	* C * C * C * C * C * C * C * C * C * C	C K - 7		-41 - 6x 0	72.347	-16.573	1	-24.655	7.9014	-55.295	42.741	-13.554	216.74
17-634 41-754 1-6240 -15-114 7-115 15-157 CS -0.2747 -0.4116 -2.0412 9-7-7-1			-11-563	21.4HG	72.347	16.673		2.3100	-0.7489	-0.0065	6.2245	1.4130	りゃらいきょう
1.2543 -5.0493	47.644	_	1.6240	-13.116	7.115	15.157		1412-0-	-0.4115	-2.0416	70.70	CC32.04	
0.24374.3406. 0.7533 -0.924 -1.5456 -0.4447 TPS 126.54 -41.338 24.825.240.21.0575 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.5455 0 1.0524 -1.6556 0 1.0564 0 1.0524 -1.6556 0 1.0556 0 1.0564 0 1.0524 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0556 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566 0 1.0566		•	0.5467	-0.4230	6.5952	-0-5414		-64.805	-5.4497	28.445	150.55	107-17-	COCC-1
0.2437 4.3406 0.7533 0.4224 1.5056 0.0087 0PC =1.6881 =0.1586 0.8280 1.02157 0.2554 1.2553 =0.5555 0 0.7533 0.7235 =1.5360 0.7533 0.7235 =1.5360 0.7533 0.7235 =0.5414 0.85 0.7560 0.1560 0.1560 0.7531 0.2225 0 0.7531 0.2244 0.85 0.7560 0.1560 0.1560 0.7531 -0.2225 0 0.7531 0.2254 0.755 0.7551 0.7551 0.7551 0.7551 0.7551 0.7564 0.755 0.0083 =0.0073 =0.3331 -0.1196 0.0512 =0.2375 0.0234 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564 0.2564	-0	.0006.4.	0.7533	-0.8224	-1.5056	_0.00A7		150.54	-41.338	24.856	1.	60***T*	0.4.0
1.2503 -5.7504 -0.5451 -0.4270 -5.5452 -0.5414 CPS 3.6433 -1.2033 0.7235 -1.57030 -0.2225 0.7931 -0.2222 0.70159 0.7931 -0.2222 0.70159 0.7931 -0.2222 0.70159 0.7931 -0.2222 0.70159 0.7931 -0.2222 0.70159 0.7931 -0.2222 0.70159 0.7931 -0.2224 ATC -0.5906 0.1660 -0.1159 0.7931 -0.2222 0.7271 -0.4564 ATS -0.0643 -0.0073 -0.0331 -0.1196 0.0222 0.7017 -0.4564 ATS -0.0643 -0.0073 -0.0073 -0.0331 -0.1196 0.0222 -0.2270 0.7250 0.1263 -0.4221 -0.4222 -0.4227 0.1263 -0.1263 -0.1271 -0.3312 -0.2222 -0.0475 -0.1346 0.7250 0.1203		901.8.9	0.7533	0.472%	-1.5056	0,0087		-1.8541	-0.1586	0.8280	٦,	7.10.4	•
2-15-2 - 3-5135 - 2-5407 - 1-6316 0-5517 0-2394 ATC -0.5906 0-1660 -0-1159 0-7931 - 0-2022 1-3555 0-0724 1-6585 1-0-7201 -0.6664 ATS -0.0683 -0.0073 -0-3331 - 0-1196 0-0512 - 0-1555 0-0724 1-6585 1-6575 - 0-7201 -0.6664 ATS -0.0683 -0.0073 -0-3331 - 0-1196 0-0512 - 0-16360 - 0-16575 - 0-7201 -0.6664 ATS -0.0683 -0.0073 -0-3331 - 0-1196 0-0512 - 0-1645 - 3-6304 - 0-6664 ATS -0.0683 -0.0073 -0-3331 - 0-1196 0-0512 - 0-1645 - 3-6304 - 0-6664 ATS -0.0683 -0.0073 - 0-3331 - 0-1196 0-0512 - 0-1645 - 3-6304 - 0-1645 - 3-6304 - 0-1645 - 3-6304 - 0-1645 - 3-6304 - 0-1645 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 3-6304 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 - 0-1646 -	1	5.000	19890-	0.6230	-5.5752	-0.5414		3.6433	-1.2033	0.7235	7	¥050.00	> (
1.3655	,	5125	7094-6	-1.6316	5517	U.2394		-0.5906	0.1560	-0.1159	_ '	9777.0	70 T • 0
1.3500° -0.0.0.74 1.4585 1.6575 -0.7201 0.6664 -2.1842 -3.5135 2.4407 -1.0316 -0.5417 0.2394 -16.253 7.4457 -2.9451 -2.7017 2.1434 -3.4308 -16.253 7.4457 -2.9451 -2.7017 2.1434 -3.4308 -17.34 -15.533 -15.237 5.6168 3.4759 0.1973 -10.273 7.6457 2.9451 -2.717 -2.1453 -3.4308 -0.3312 0.2052 -0.0575 -0.2270 0.7597 0.1113 -0.3312 -0.2052 -0.0475 -0.2270 0.7597 0.1113 -0.1271 0.3631 -0.0229 -0.1346 0.7250 0.1203	`	AC - 1 .	1 4655	4750-1-	-0.7201	-0.6664		-0.0683	-0.0073	-0.3331	7	0,0512	3
16-263 7.0457 -2-9451 -2-7617 2-1434 -3-4308 -16-263 7.0457 -2-9451 -2-7617 2-1434 -3-4308 -16-263 7.0457 -2-9451 -2-7617 2-1434 -3-4308 -1734 15-533 -15-237 6-5168 3-8769 -0.1973 -10-283 7.0457 -2-9451 -2-7-17 -2-1463 -3-4308 -0-1271 0-3621 0-0229 -0-1346 0-7250 0-1263 -0-3312 -0-2652 -0-0475 -0-2270 0-7597 0-1113 -0-1271 0-3631 -0-0229 -0-1346 0-7250 0-1203	_ '		1000	67.63	1067-0-	0.6564							
16-273 7.0457 -2.9451 -2.7617 2.1434 -3.4308 7.1734 15.533 -16.237 6.6164 3.4769 0.1973 7.1734 -15.533 -16.237 6.6164 3.4769 -0.1973 10.273 7.0457 2.9451 -2.7717 -2.1463 -3.4308 -0.1271 0.3052 -0.0475 -0.2270 0.7597 -0.1113 -0.3312 -0.2052 -0.0475 -0.2270 0.7597 0.1113 -0.1271 0.3031 -0.0229 -0.1346 0.7250 0.1203	_ ;	56.5	_	9150-1-	1.36.17	0.2394							
7.1744 15.533 =16.237 6.6164 3.4759 0.1973 7.1734 =15.533 =15.237 =5.6164 3.4769 0.1973 10.243 7.0457 2.9451 -2.7.17 =2.1463 =3.4308 -0.1271 0.3031 0.0229 =0.1346 =0.7597 =0.113 -0.3312 =0.2052 =0.0475 =0.2270 0.7597 =0.113 -0.3312 =0.2052 =0.0475 =0.2270 0.7597 =0.113	ĭ	75711-7	` '	7.701	7 14.3 5	-3.4308		i					
7.1734'-15.233 -15.237 -5.5168 3.4769 -0.1973 10.273	1		ì	7.7.7	9077.E	0.1973	ļ i						
10.25.3 7.0457 2.9451 -2.77.17 -2.1463 -3.4308 -0.1271 0.351 0.0229 -0.1346 -0.7250 0.1263 -0.3312 0.2052 -0.0475 -0.2270 0.7597 -0.1113 -0.3312 -0.2052 -0.0475 0.2270 0.7597 0.1113			-15-237	-5-61EB	3.4769	-0-1973							
-0.1271. 0.3031 0.0229 -0.134h -0.7250 0.1263 -0.3312. 0.20520.0975 -0.2270 0.7597 -0.1113 -0.33120.2052 -0.0475 0.2270 0.7597 0.1113 -0.33120.2052 -0.0229 -0.1346 0.7250 0.1203		540-7	2.3451	-2-7-17	-7.1483	-3.43(18							
-0.3312 0.2052 -0.0375 -0.2270 0.7597 -0.1113 -0.3312 -0.2052 -0.0475 0.2270 0.7597 0.1113 -0.1271 0.3631 -0.0229 -0.1346 0.7250 0.1263	7.01	6.06.0	10000	0.1346	2567.0-	0.1263	:						
-0.3312 -0.2052 -0.0475 0.2270 0.7250 0.1113	71.0		2/40 · O · ·	0.2270	0.7597	-0-1113						Í	
U.1271 U.3631 -U.0229 -U.1346 U.7250 U.1263		517	0.0475	0.2270	0.7597	0.1113					15.00 A 15.10	4	
	25.		0666	27.0-	0.756	0.120				F	11.5.7.1	•	
	S v.1	.363		-0-1346	9 .727. 0	0-120						•	į
												l	

7	Agic: SEU 2-01: 629	1629											
	m	· •		5		13	3	~	m	4	بر ا	æ	12
-	18,220.	18,22044,310	.55.414	27.0Ci4	-7.4F11	-32.440	<u>_</u>	-21.411		-20.731	-27-353	41.295	699.6
2 x S	•	. 111.5.11	-41,103	-10.555	35.144	13.437	5	-4-1717	234.53	•	14.043	34.465	-131.37
3 Y.C	-12.717	ŧ	-46.703		35-144	-13.4H7) 0	-2.4961			-5.5966	0.6100	Ġ
ر ۲	-1 n. 226 - 464 - 310	-64.310.	510005	27.004	7.4411	-32,440	SO	0.1558		0.4763	-0.1576		•
\ \ \	2.45341	-1.415h	1.9653	-2.5773	-0.435E	0.0376	1 PC	-156.25			41.240	71.245	73.104
ر. د. ا	3.4+33.	\$ 3073	4 4 7 2		-0.4360	-0.2734	145	6965.0					
,	3047 55	•	3.4473		0988.0-	11.2734	O O O	-4.5481					- 1
	->+5540	45:30		-2.5773	U.4357	0.0478	San	-0.0290		3.5112.			
J 1x 5	2.1530.	٠,			-4.5357	-5.9262	ATC	0.0439					ို
SUNO	10,952	•	4.577	06×**	-7.3349	-4.2241	ATS	-0.1904	1.3715				-0.7273
17 YES	13.932	545.41	4.5970	969.01-	7	4.224]							
J. Y :: 5	-2-1540	. 9.54,317	-4.1505	1.4245	4.5453	,							
3 600	・かたさ・ハロー	151-2	-24. 54	3.40%	4	•	!						
201 21	-11-2:12	115.161	10.025		-h.5376	34.500							
226	-11-2'2	15.161	10.425		-6.5370	-34.500							
	52.439	151.54-	34.04	63.66.6	120015-	-7.6173			1		1 i	:	
17 BAC	11.0174	ာ	-(1.5/54		1601.0-	-0.3385							
	-0.2135		-0.3584	-0.0379	0.2525	4670.0			PR.	PRELIBENARY DATA	4RY 704	TA	
	-6-2135	٠.	-0.35%¢	0.6379	0.2625	7						יוע	
A AYS	-11.0774	-0-1913	0.5754	0.1776	0.1051	-C.3395	;						

2.011632 2.0634 . 63.269 . 61.269 . 61.269 . 61.269 . 61.269 . 61.269 . 61.269 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61.369 . 61	11632 (C.32 11	-727 PH-1	ST-727 PH-1 T4-122.011632	011632	ان-6	10-PRESSIUTO		13	FEA 75405133	433	PAGE	æ.		
9-6448 - 43.749 - 45.345 69.529 - 43.373 35.844 IC 1.7791 - 3.3305 3.3449 - 43.879 21.071 -1.4974 - 12.025 29.377 - 27.234 0.7344 12.173 15 24.337 1.9452 1.9454 1.9454 -1.4974 - 12.025 29.377 - 27.234 0.7344 12.173 0C -0.7135 - 0.2654 3.2344 1.9451 1.9454 -1.4974 - 12.025 29.377 - 27.234 0.7344 12.173 0C -0.7135 - 0.2654 3.2344 1.9451 1.9454 -1.4974 - 12.025 29.377 - 27.234 0.7344 1.9453 1.96 1.9451 1.9464 1.9454 1.9464 1.9464 1.9464 1.9464 1.9464 1.9464 1.9464 1.9464 1.9464 1.9464 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1.9664 1	9.644 - 43.249 - 45.455 69.529 - 41.373 35.854 IC 1.7701 - 3.3305 3.3449 - 43.679 21.071 9.644 - 43.249 - 45.455 69.529 - 41.373 35.854 IC 1.7701 - 3.3305 3.3449 - 43.679 21.071 1.547 - 12.022 29.317 27.233 0.7314 12.173 0C -0.7139 0.2554 3.2306 41.291 9.1519 1.9155 27.291 9.1519 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159 1.9159	3 3 6 7 . 7 7	. 1637				1					1		
2, 9644	2	2.0116	35-1-26	<u> </u>	· · · · · · · · · · · · · · · · · · ·									
2.9448 - 43.749 - 45.455 69.529 - 43.373 35.854 IC 1.7391 - 3.3305 3.3449 - 43.249 1.9155 27.591 9.7374 1.9155 1.9155 27.591 9.7354 1.9155 27.591 9.7354 1.9155 27.591 1.9159 27.691 1.9159 27.591 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 2.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 2.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.691 1.9159 27.	2,9448 - 43,749 - 45,345 69.529 - 43,373 35,844 IC 1,7391 - 3,3305 3,3449 - 43,849 21,071 15,025 24,317 0,2437 12,025 24,317 27,234 0,7374 12,017 30 20,234 3,731 15,1519 0,7374 12,017 30 20,243 3,731 15,1519 0,7374 12,017 30 20,243 3,731 15,1519 0,7374 12,017 30 20,243 3,731 15,1519 0,7374 12,017 30 20,243 3,731 15,1519 0,7374 12,017 30 20,243 3,731 15,1519 0,7374 12,017 30 20,1719 12,017 30 20,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,1719 12,	*	ĸ	~	•	=	13	:	~				œ	12
1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,00	12-41	,			769.64	272773	15 P 5 6	7	1.7391	-3.3305	3.3449		21.071	3507.0-
		; , پ	1970F9 . XY	•	17/010	4/4/	12.173	12	24.337	0.9437	1.9155		9.7536	77. 75
			20021 . 446	27.57	5574.71	0.7374	-120173	O O	-0-7135	+3,2654	3.2306		1.1519	./55.0
1-241-2-3447-1-4424 1-1578 0.733 TPC -31-957 29-774 -30-173-15-15-15-15-2472 1-24474 2-3-4547 2-3-4547 29-72-40-341 1-1593 1-1593 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15434 1-15442 1-15442 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575 1-1575	124 -25-54 -142 -135 -1978 -1453 1PC = 31.967 29.774 -30.173 -15.616 -7.5472 -19.341 -19.5472 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.424 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.444 -19.		700 10	25.00	6000	41.17	450.05	SO	1.3324	0.4923	1.9168		14:3:3:1	74.0
1-27-11-27-12-12-12-12-12-12-12-12-12-12-12-12-12-	1-24-11-24-24-1-4-24-1-1-355-1-1-578					2-0415	21.4533	100	-31.367	24.174	-30.173	·•15•616	-2.3372	7 / S = 0
1.3599 6-4342 -4-24 -7-45 -1-1578 -0-7033 OPC -6-9305 C-4443 -0-6544 O-0554	1.3499 4.4442 1.4424 1.7455 1.1579 -0.7033 0PC -0.9305 0.0467 -0.8743 -0.4546 -0.0073 -0.9349 4.4442 1.4459 1.455 1.453 1.453 0.0510 0.0537 0.0061 0.0152 0.0459 1.5547 1.6744 0.5651 -0.4543 0.0510 0.0510 0.0537 0.0061 0.0152 0.0459 1.5547 1.56403 3.9060 2.1241 1.1143 0.0559 1.5547 1.56403 3.9060 2.1241 1.1143 0.0559 1.5547 1.56403 1.05651 0.0610 0.06122 0.0610 0.06122 0.0157 0.0073 -0.5621 -0.5631 0.5631 0.3752 0.0610 0.06122 0.0619 0.01257 0.0073 0.0073 -0.5621 -0.5631 0.5631 0.5631 0.0559 10.5631 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.06148 0.0614					575 CT	0.7043	TPS	-21.996	133.99	72.973		1.1503	12.03
1.2431 -2.4445	1.3479		755		776.01	37.5	-(1.7.1)	CPC	\$0.6405	G.8667	-0.4743	•	C.C.C	
-1.24-31 -2.54455 -1.0774	10.26.1		*****	****		4	66.44	9	-0.6403	1	2.1241		2,0347	
-7.5674 2.5603 -100044 0.5703 -0.5603 -0.5652 ATS 0.1220 -0.0679 -0.1257 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0073 -0.30751 0.0072 -0.30751 0.0072 -0.30751 0.0072 -0.30751 0.0072 -0.30751 0.0072 -0.30751 0.0072 -0.30751 0.007	-7.5674 2.5603 -1.0074 0.5751 -0.5501 -0.5552 ATS 0.1220 -0.0679 -0.1257 0.0073 -0.3.0514 -0.5501 -0.5501 -0.5550 -0.0679 -0.1257 0.0073 -0.3.0516 -0.3752 ATS 0.1220 -0.0679 -0.1257 0.0073 -0.3752 ATS 0.2503 -0.5047 -0.5503 0.5754 -0.5503 0.5754 -0.5503 0.5754 -0.5503 0.5754 -0.5503 0.5754 -0.5503 0.5754 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5764 -0.5		د١١ -2. ١٤٠		40 7 7 F	61.0	6674.0	. L	0.00.0		0.0061		9640.0	C
-3.7514 -0.4621 -0.2175 -0.4161 -0.5031 0.3352 -3.7514 0.4621 -0.2175 0.4161 -0.5031 0.3352 -3.7514 0.4621 -0.2175 0.4161 -0.5031 -3.7514 0.4622 -0.5031 0.4633 0.1517 -2.647 -0.4625 0.7045 -1.6610 2.7237 -31.546 -0.3746 0.6435 0.7045 -1.6610 2.7237 -31.546 -0.3746 0.6435 0.7045 -1.6610 2.7237 -3.7517 0.6637 0.7045 -1.6610 2.7237 -3.7517 0.6637 0.7037 0.1633 0.1519 -0.1724 0.1127 0.2236 0.2236 0.1453 0.1519	-3.7514 -0.4221 -0.2175 -0.4161 -0.5031		kng. 2.540;	\$ 100 TO 1		10 4 4 0 T	5645.01	A 7 &	02210	•	-0.1257		0.0073	Ç
3.55637 2.56334 1.67342 1.56541 1.66148 -0.4555 3.155637 2.54334 1.67342 1.65641 -0.4555 3.15563 -3.5435 1.67645 -1.66110 2.7237 -2.5445 -1.5537 -4.5645 1.665 -1.66110 2.7237 -3.15563 -3.5757 -3.1210 -4.5645 -1.66110 2.7237 -3.15563 -1.5537 -3.1210 -4.5645 -1.66110 -2.7287 -6.1724 -0.1127 0.2402 -1.2238 0.1453 -0.1519 -6.1724 -0.1127 0.2402 0.2238 0.1453 -0.1519 -6.1724 -0.1127 0.2402 0.2538 0.1453 -0.1519	3.5.510		C31.0	C) 17. 11. 1	101		10.45.0	ì	***		ı			
31-540-8-5445 3-01-0 -4-5042 3-50-0 -7549 31-540-8-5445 3-01-0 -4-5042 3-50-0 -2-7247 -20-447-9-76-4-25 0-7045 -1-50-10 2-7247 -31-540-3-1-54-0 -3-7210 -4-5045 -1-50-10 2-7247 -31-540-3-1-54-75 -3-7210 -4-5045 -1-50-10 2-7249 -0-10-3-1-54-0-11-3-1-5-70-0 -5-234 0-1453 -0-1519 -0-1724-0-11-3-1-0-2-740 0-5-3-6 0-3-704 0-2-486	31-540-8-5435 3-0,10 -4-60427 3-6494 -0-7549 31-540-8-5435 3-0,10 -4-60427 3-6494 -0-7549 -21-47-9-7634 -4-4025 0-7045 -1-6410 -2-7287 -31-546-8-55735 -3-1210 -4-64042 -3-6544 -0-7649 -31-546-8-55735 -3-1210 -4-64042 -3-6544 -0-2486 -0-1724 0-1127 0-2402 0-2238 0-1453 0-1519 -0-1724 0-1127 0-2402 0-6354 0-3704 0-2486		295-01-016			12.6168	905400-							
-21.479.76546.4025 -0.7045 -1.6010 2.7237 -20.479. 9.7454 -6.4025 -0.7045 -1.6410 -2.7287 -31.5463.5795 -3.2710 -6.6042 -3.6744 -0.7649 -0.1054. 0.4054 -0.2470 0.6454 -0.3704 0.2486 -0.1724. 0.1124 0.2402 -0.2238 0.1453 -0.1519 -0.1724. 0.1124 0.2402 0.2238 0.1453 -0.1519	21.479.76546.4025 -0.7045 -1.6010 2.7237 -20.479. 9.7454 -6.4025 -0.7045 -1.6410 -2.7287 -20.479. 9.7454 -6.4025 -0.7045 -1.6410 -2.7287 -31.546 -4.5579 -3.7210 -6.5442 -0.3704 0.2486 -0.1054 0.1127 0.2462 -0.2238 0.1453 -0.1519 -0.1724 0.1127 0.2462 0.2238 0.1453 -0.1519 -0.1724 0.4054 0.2740 0.6354 0.3704 0.2486		10.55 B 1 . 655		64.04.4	とからなる。	6,749							
-20.619. 9.7454 -4.4025 0.7045 -1.6410 -2.7287 -31.5463.5795 -3.1210 -4.6042 -3.6744 -0.7649 -0.1054 0.4124 0.2402 -0.2466 -0.3704 0.2486 -0.1724 -0.1127 0.2402 -0.2238 0.1453 -0.1519 -0.1724 -0.1127 0.2402 0.2238 0.1453 -0.1519	-20.479. 9.7454 -4.4.25 0.7045 -1.6410 -2.7287 -31.5463.5775 -3.1210 -4.6042 -3.6744 -0.7649 -0.1054 0.4124 0.2462 -0.2340 0.2486 -0.1724 0.1124 0.2462 -0.2238 0.1453 -0.1519 -0.1724 0.1127 0.2402 0.2238 0.1453 -0.1519 0.0064 0.454 0.2740 0.6354 0.3704 0.2486		\$ 149. 10.5°	44.4025	-11.71.45	01:001-	2.7247							
-31-54625-75 -3-1210 -4-6042 -3-6-44 -0-7649 -0-1054 0-4124 0-2462 -0-2462 0-6454 -0-3704 0-2486 -0-1724 0-1127 0-2462 -0-2238 0-1453 -0-1519 -0-1724 -0-1127 0-2462 0-2238 0-1453 -0-1519 0-6064 0-4554 0-2740 0-6354 0-3704 0-2486	-31-54625-75 -3-1210 -4-6042 -3-6-44 -0-7649 -0-1054 0-4654 -0-2462 0-6454 -0-3704 0-2486 -0-1724 0-1124 0-2402 -0-2238 0-1453 -0-1519 -0-1724 -0-1127 0-2402 0-2238 0-1453 -0-1519 0-6064 0-454 0-2740 0-6354 0-3704 0-2486		413. 9.745	£ -4.4.125	0.7045	-1.6-10	-2-7287							
-0-1053 0-4554 -0-2462 0-6454 -0-3704 0-2456 -0-1724 -0-1127 0-2402 -0-2238 0-1453 -0-1519 -0-1724 -0-1127 0-2402 0-2238 0-1453 -0-1519 0-0068 0-4554 0-2740 0-6554 0-3704 0-2486	-0-1053 0-4554 -0-2462 0-6454 -0-3704 0-2486 -0-1724 -0-1127 0-2402 -0-2238 0-1453 -0-1519 -0-1724 -0-1127 0-2402 0-2238 0-1453 -0-1519 0-6064 0-4554 0-2740 0-6354 0-3704 0-2486		5.46 3.5+7	3 -3 . 121th	•		-0.7649						i	
-0.1724 0.1127 0.2402 -0.2238 0.1453 0.1519 -0.1724 -0.1127 0.2402 0.2238 0.1453 -0.1519 0.0068 0.4654 0.2740 0.6554 0.3704 0.2486	-6-1724 0-1127 0-2402 -0-2238 0-1453 0-1519 -0-1724 -0-1127 0-2402 0-2238 0-1453 -0-1519 0-0064 0-4654 0-2740 0-6354 0-3764 0-2486		1093 11.44F5	@ 24 2 * A = . •		•	خ ک						744	
-0.1724'-0.1127' 0.2402 0.2238 0.1423 -0.1212 0.0064' 0.4654 0.2040 0.6354 0.3704 0.2486	-0.1724'-0.1127' 0.2402 0.2238 0.1453 -0.1731 0.0064' 0.4654 0.2740 0.65354 0.3704 0.2486		724. 0-112	1 0.2402	•	0.1453	91210					ANH ZE	77.10	
0°0064' 0°4654 0°2040 0°6354 0°3704 0°2400	U.C.C.C. T.C.G.F.F.F. T.C.C.T.C.C.C.S.F.C.F.C.F.C.F.C.F.C.F.C.F.C.F.C		7240-112	7. 0.2402		0-1423	7 CT • ij =	1			-	1		
•		_	CON . (0.455)	UN1.2.0 %		0.3704	0.2480							

75	57.681 -33.002 -5.4945 -24.656 -2.1545 13.444 3.2025 -0.2553 0.3517 42.601 2.321 2.1932 46.331 11.365 -4.317 2.5129 0.3306 -0.1257 -0.4465 0.1449 0.9293	Ling face = X + XP + AX Led face = Y + YP + AY Ved foce = T + TP + AT Aids Himest - K1 + 1::P 2011 Movent = L + LP TORQUE = Q + QP
4	85-257 - 51-959 - 2 8-1855 - 3 1-9356 - 3 6-9763 - 4 6-9763 - 4 0-2631 - 1 0-5235 - 9 0-58456 - 4 MINARY I	Lingtuce: X+XP+A Ld face: Y+YP+A Ved foce: T+ TP+A Pitch Hunest - K1+1:P Roll Movent = L+ LP TORQUE: Q+QP
5133		
FEB 75-05133	137.33 137.33 1.53.1 1.2.15 100.02 12.49.9 0.3537 0.4466 0.9445	itely Lik Correction.
13	24 15 25 2 4 25 25 3 90 25 3 90 25 3 90 34 5 90 34 5 90 34 5 90 34 5 90 34 5 90 36 6 19 36 7 36 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	K Charles (
£1		C. L.
a∉SSu∪To	16.352 10.352 10.352 10.3769 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.3762 10.376	13.04 13.04
11:=pa	13-529 -13-529 -13-529 -13-529 -13-529 -13-529 -13-529 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11 -13-11	G 4
11:631	20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20,25 20	
(633)	23.7 K2 23.7 K2 23.7 K2 23.7 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.1 K2 24.	Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force Force
151-727 Pri-1 Fa- 1517156-3 2-(11633	20-176- -20-176- -20-176- -20-176- -20-176- -20-176- -20-176- -20-176- -20-176- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20-20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20- -20	X>HJZ
151-17	-6 +4 × 9 4 × 8 + 6 × 5 × 5 € 6 € 8	ORIGINAL PAGE

F of piggs body

and the second

Branconing (* 18. 7 Iga give chor (* 18.

To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se

For transported of

The statement of

.

*

Beautification B

-

I

APPENDIX C - NASA AMES FIXED SYSTEM HUB LOADS DATA SUMMARY

A summary of the 4/rev content of the six vibratory hub loads are presented in Tables C-1 and C-2. Included in the summary is a definition of the test conditions as well as the sine, cosine and net vibratory load.

				_						_	_	_		_			_			_	_			_	_			-					_	-	-		-				_	_	-		_					_		_	-
2	-			3:		3	ç	2	7	-	140.	151	-53.	-20.	*	<u>.</u>		÷:		:	;	: 3			2	~	=	<u>.</u>	297.	•	ġ:		, ç	<u>-</u>	~	≘;			195.	2	=	<u>.</u>	**;		- 2	-	<u>;</u>	; <u>.</u>	-				_
JA.	16.21		12.24	3	9			05	20.07		12.19	• 5	11.63	74.53	32.88	23.51		17.97	23.02			77.70		7.1.0	***	27.50	7.62	11.55	19.50	11.27	1			88.44	28.31	?:	2			3.0	2	52.	7	??		25.53	=	= ::	77.17	7	::		_
47.45	-5.91	. 00	7.17	-5.0		9 .						-2.12	7.99	25.54	10.00	19.10			27.41	2.98	5.5	. 1.92		76.71		7.	×	9.79	-17.35	71 . 17	•			75.46	9: 2	26.82					7	-42.48	11.50	7 ·				-16.47	19.34	-11.07	90.1	66.75	
4	-11.	-5.28	- 3.95	-17.61	3:		7	10.00		73		-5.98	-3.55	-70.02	-13.64	11.76					37.7	25.55	5		7	11.20	11. 12	1.11	-3. 6		14.54				-6.11	3		7	76.1	17.73	-34.73	-11.52	7.7	-24.64	7	27.42		17.63	7	:	-13.6	-7.94	
:				_	213.		2						_		152.	. 22.2	3	216.									0		::		254.	?			173.	205.	3	3 2		=	<u>:</u>	. 7	-60	12.	٤.			-	7		3.	:	
HXG	13.5	2.23	12.98	1.47	10.75	. 67	2	2.5		7.0		22	3	122.26	41.16	41.30	28.87	34.78	5.2	35.35	40.42	2.58	7	57.7	7			25.47	CR. 69	22.70	22.95	76.77		2.7.	10.11	21.28	67 : 1	20.00		111.07	71.85	78.7	24.45	45.04	#	18.35	F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				*	10.24	
RK4S	-19.39		-6.52	-9.19	-7.99	96.	-3.5	0.7	77.67	28.87		47.02		10.47	- 37.20	-26.61	3.31	-27.99	27:17		-13.74	1.7	-11.76	-9.56	-21.14	100			-25.85	-20 46	*0 · 9-	-16.09	-30.33	77.77	76	-44.51	-17.11	-23.95	- 17.		20.92		12.22	77.7	-7.0:	00.61	3	77. 77.	-		20.27	20.5	•
_				-2.27		-9.57	3.	-7.32	15:31	-7.		7 0				_	20.68	-20.65	. 56		7.	.7.3	-27.20	14.71	13.04	2.5			,	-9.97	-22.13	-20.93	2.7	20.19	200	-21.59	09.11	10.51	2			67.73	-21.16	3	12.2	78.5	-			11.56	3.3	14.94	
***	÷:		132	7	70.	133.	.5.	238.	207.	- 29.		77.	: :				-14.	267.	234.	7.5	;	:3:	-79.	7.	-53.	237.	:::		-	206.	.23.	706.	706.	232			199.	221.	173.		217			136.	2.5	=:	2.	3	7			142.	
1.4	17.11			12.15	59.30	34.74	63.67	141.44	237.30	47.72	197.57	228.4	10.7	7.7.2		7	13.65	122.79	151.97	108.30	22.66	136.22	155.22	104.31	176.72	153.77	36.36	20.751		101	123.10	35.64	97.78	39.32			67.22	84.C0	23.53	2	7	23.4		3.5	19.99	7.00	27.63	200	3		. =		
148	-	_	_	90			<u></u>	-74.96	=	16.71	-47.05	-105.91	- 70. 11	-202.00	142.70	7	77.77		-19.37	168.70	30.21	131.30	30.25	27.98	105.29	-105.15	-55.97	-63.31		-	75.56	- 31. 04	-13.96	-24.24	2.0	.0.67-	-62.58	-65.67	-29.39	-136.14		7	10.41	-37.05	24.71	- 70.52	-36.31	6	04.46	16.	74.75	-120.79	
140	-24.30	_	_	7.0		_	_	_	-113.63	_	-191.84	•	:	-2.26	_	•				70	30.13	15.97	-152.26	100.49	-141.53	-162.76	-169.35	-162.36	55.7	7	20.00	0.71	- 16.24	-30.96	07.73-	3.5		-58.58	3.51	- 31.04	2	75.191-			16.74	• • • • • • • • • • • • • • • • • • • •	-43.98	49.74	07.47				
	962.	.295	295				795		_	_		_	7.	.795	*	9							-	1.574			5:5:4		. 56.				111	1. 190		9 1			1,4,7	1.4.1	1.911	7	1.930	200	2.905	200.	1.9%	1.0.7	. 17.	3	1 6		
629		0.0	•	•	2	•		•	3.72	0	=		6.0	1.96	• ·	•	5,		-		•				10		3.0	70.	3 .:		3		0	0	0.0	0	; ;	9 6		0.0	•	6.0	9				6.5		3.	3.	-		
t	380	\$900.	.0110	0.00	0.00	1000		100			9976			1.03.	. 64 30.		-						***		7	01.7	. 6234	10.0	07:0	•	10.70	1000	3100	1010.	25:0	.9191		7	6369	6.70	1200.	25.0		3.0	1 2 2				·	;		3	
•	:			• ·										.0.5	2.0			7										5.0							. C.			· :		0	.0.0	9.3	-								; ;		
																																																		1			
1																																																		, , , o			
		200	1006	100	1500	2:3:		-		200	3				1379	1230	1001	1332	20,24	500	70		200			5 (9.0	134	7:2		10.4				3	1111		. ,		:		7,94	1 1 5			7 P. F.				3	.747.	3	

TABLE C-1 NASA AMES FIXED SYSTEM 4/REV HUB LOADS LATA THRUST, ROLLING MOMENT, PITCHING MOMENT

			_	_		_		_		_	_	_				_	_	_		_	_	_			-		_	_		-				-	_	-		_	-	_	_		_		_			_	_						_	7	
3	-57.	2.10	2:7.	135.	, 10 :	.	•	167.	1	ر د م		73.	181.		236.	-59.	71:	-72.	2.16.	11.	. 7.4	\$6.	-21.	114.	::	255.	15.5	200,	-13.	1,5	- 30.	-33.	25.	195.	_		-	-		235.			5 151.			_	96.4			,		:17			; ;		
ō	1.16	7.17	97.7	2.54	7	5.2.3	Y :		7.93	7.02	5.04	1.43	16.4	3.35	14.54	14.34	.42:	11.96	16.45	2.20	2.97	2.95	16.49	2.90	5.15	9.78	6.03	11:4:	4.03		11.47	85.7	7.8	4.32	1.43	4.33	11.28	7.34	2.37	5.0	3.83	4.57	. 375	9.73	6.81	2.68	7.0	3	4.28			1.57	7.63	4.67	- H . 37	$\left \right $	
048	.624	3.12	-3.60	-2.45	77.	2.5	66.1	1,1,1	62	-3.89	-2.30	. 42	-4.91	3.11	-7.58	7.36	.14	3.67	-3.85	2.16	-1.30	1.63	15.42	-2.19	-2.24		40	88.4	6 7 .	:			2.2	-4.71	2	4.12	-1.67	3	32	-2.83	- 3.04	-3.79		-7.03	-6.25	2.26	-1.61	3.43	-4.16	- 3.13		-1.32	4.33	• 0 •	04		
040	982	584	-2.28	89.	2.12	2.28	53.	, a	2.86	3	6	1.37	90.	1.13	-12.35	-12.31	.40	-11.38	-15.99	73.	-2.67	2.46	. S. B.	2	4 9 7		88	1,1,28	50.11	4 1		20.44	75	-		-	-11.16	-7.33	-2.35	7	-2.31	-2.56	20	-5.99	2.71	-1.45	29	3.14	70.1	-5.69			-6.25	2.15	6.37		
APYA	222.	-36.	-33	216.	199.	-5-	18.	137.	7.9			401	. 20	73.	110.	137.	٦,	132.	. 65.	- 37.	.5	-74	116					-		103	::								_		2.5		_		207.					- 10	-	_	-	7	-69-		
7.4	28.37	35.42	74.39	71.41	51.93	54.53	26.43	71.40	267.19	134.05	22.021	20.04	61.00	30.	63.80	57.17	45.58	39.00	54.83	104.09	6.5	00.00	2		10.00	20.10	70.01	27.32	110	20.00	26.73	23.40	7/-/7	64.44	26.57	10:17	20.00		20.75				70.80	36.38							_	20.5		60.73	7.8		LA -
3972	201.6-	28.47	62.77	20.51	18.83	54.34	25.08	-52.59	50.76	2.5	111.81	73.13			22.50	15.04		96.26	10 20	7 7 6		90.01	9.00	10.72-	20.00	61.1	6.63	25.24	20.01	-52.97	7. 38	21.29	-26.94	86.1-	79.97	7.7				7		15.01	72.07		-27.21	05 51-	14.49	13.5	2.73	30.33	-1.63	-28.74	0 P P P P P P P P P P P P P P P P P P P	50.87	67.		DS DATA
-	19 07	-21.08	-39.93	26.98	-17.74	80.	8.33	48.30	262.32	24.07	60.12	106.78	200	20.00	27.70		74.00	20.00	10.71		10.00		-67.4	24.65	-43.19	60.09	17.49	51.19	-2.01	-9.26	26.96	-10.95	-18.56	24.30	1.95	-21.67	31.72	-27.13	5.0	-36.17	-50.5	7	1.7	71.31	-118		-14.58	-15.94	9.72	8.43	-27.76	7.7	07.04-	-33.2%	-7.82		HUB LOADS
		-19.		-	_			_	_	_	_	_		_	_	_				;	-977	9	95.	40.	254.	-26.	-26.	<i>;</i>	.6-	63.	230.	-27.	7.		_	-36	_			_		_	139	_	_		263.		-27	-	237.	24.	7.00		. 4		4/REV H
	FX4	41.32	42.58	78.96	19.07	9 6	34.19	163.48	154.11	45.62	71.98	103.71	5.92	79.60	93.16	11/11	146.13	27.76	04.71	165.20	116.11	173.42	97.19	148.04	103.63	146.26	176.87	122.85	141.0)	6:.57	91.52	137.73	10.19	49.43	17.27	41.07	11.27	32.27	87.78	110.27	6.44	9.19	7.66	79.7	7.7	20.02	12.5	7. 7.	7	66.7	12.63	3.62	27.65	2.5			l
	FX45	12.27	26.25	-36.50	14.10	159.94	11.71	-32.18	-151.05	42.53	7.21	53.48	1. 50	-77.73	86.44	137.56	127.8	-97.06	96.72	164.38	-77.70	B(∵96	-8.64	113.64	-27.53	131.81	159.21	122.62	139.10	28.21	-58.31	123.24	17.15	45.91	5.12	37.14	8.22	7.48	81.02	38.08	44.87	B 6-	-2.53	17.48	17.76	66.62-	17.7			7.86	-17.19	-1.33	-13.96	7. 5.	10.63	: ; ;	D SVSTEM
	- 1	-31.82							_		_	_	-5.78	-11.31	-34.75	09.	70.77	-5.71	99.99	10.17	-86.28	-141.03	96.81	94.88	-99.89	-63.39	-77.05	7.56	-21.26	54.73	-70.5	-61.49	58.55	-18.47	- 30.92	-21.27	-7.64	31.10	-11.12	-101.16	-2.69	-: 42	18.	-34.17	26.	-24.75	2		3.5	1 29	-27.67	-3.37	21.23	-14.55	70.1	7.10	CC EIVED
	3	296	295	298	.497	BC 7.	86.	207	000	200	795	793	791	794	. 794	1.396	1.410	1.416	1.407	1.419	1.386	1.347	1.381	1.389	1.578	285	285	5.79		7.5		765	009	2			1.408	1.404	1. 198	1.186	1, 386	1.954	1.94)	1.944	1.84c	1.930	2.012	2.00.2	2.003	706.7	7.0	7	1.193	1.190	1.1.10	1.189	
	~ 1	0.0			0.0	0.0	0.0	0.	7, .					85	3.93	0.0	2.01		-	~	0	-	-	• ^		•	-	٠ ,	; -		;	•	<u>.</u>	•	•	9	9	5 4	c	, .	, c	0	0	•	٥	•	_	•	_		, . 			7. 80	_	_	
	ż	.0048	.0085	21.	0052	.0057	. 9645	.0052	.0073	7600.	.000		010	2,00	800	0114	.0179	0154	.0173	.0195	7	0212			770	2	10.0	0770		0.23	0070		70.	1080.	700	0.00		10.			6,000	200	0770	0371	.0378	5550.	. 610	.040.	.06.93	27.0	5		. 5	0.00	5.	<u> </u>	- °
	90	\$.0.	2.0			2.0	5.0	5.0	2.0	2.0	20.5	2.0.5	500														5.0-5			2.0	2.0	2.0	20.0		-		2						-		0.0	2.5		0.5.0	0 5.0	0.0			- ·	2.7.	2.5	7.5	
	RPM																																																					77.			-
Ī	NOM	=	=	2			6	90	9.0	9	ŝ	36	8	9	0 6	2 :	: :	7 2	7 4		7 6	-	•	<u>~</u>	6	3	92	?	-	6		•	•		=	ī	Ĭ	=	=	=	=	= :	==	= :	:=	: :		-	: : -	12	2 2	27.	- T	7	7	12.1	4
	CORR	100	1005	1006	1007	5007		101	10:5	1016	1020	1051	1022	1757	1028	1029	1330	10	507	107	1035	1041	1915	1043	1044	1045	1946	1047	1048	1049	1053	1055	1056	1057	1372	1373	1374	1376	1377	1378	1379	1381	1398				7	200	200	159	159	1591	3	2 .	191	1533	

TABLE C-2 NASA AMES FIXED SYSTEM 4/REV HUB LOADS DATA LONGITUDINAL FORCE, LATERAL, FORCE, TORQUE

ORIGINAL PAGE IS OF POOR QUALITY

APPENDIX D DERIVATION OF GENERALIZED COORDINATE METHOD F(& OBTAINING HUB LOADS

The development of helicopter vibratory hub loads from blade bending moments is based upon

- a) generalized coordinate theory
- b) trignometric transformation of rotating blade shears and moments to the fixed system

Generalized coordinate theory assumes that the forced response of a vibrating system (a particular degree of freedom) is the summed response of all the natural modes of vibration. For the blade vertical degree of freedom, the natural modes involved are the blade flapping modes and the summed response of interest are the root vertical shears and moments. These blade root shears and moments are the sources of hub vibration (F_z, M_x, M_y) which are then transmitted to the airframe below. For the inplace degree of freedom the natural modes involved are the blade chordwise modes. The root shears and moments from these modes produce 3 additional hub vibration components (Q, F_x, F_y) . Blade radial forces also contribute to F_x and F_y .

The pricipal equation for application of generalized coordinates is as follows:

Modal moment x q

(1) Bending Moment = \(\sum_{i=1}^{\text{Mode j}} \)

HAR A Sta i j=i Mode j HAR A

The equation states that the measured blade bending moment amplitude at station (i) on the blade for a certain harmonic (A) is

the summed contribution of modal moments at station (i) for mode (j) times generalized coordinates for mode (j) for all modes considered (NM). Note that for each blade station there is a modal moment value for each mode whereas there is only 1 generalized coordinate for each mode for harmonic (A). When a number of blade stations are considered (NS), the left hand side of equation becomes a column matrix (order NS), the modal moments become a rectangular matrix (order NS x NM) and the generalized coordinate becomes a column matrix (order NM) for each harmonic considered.

(2) $(BM_{NS}) = (MM_{NS}, NM) \cdot (q_{NM})$

This equation is a set of (NS) simultaneous linear equations in (NM) unknowns with the generalized coordinates being the unknown variables. The bending moments are measured blade data, and the modal moments are known from a free vibration analysis of the blade. The number of stations where blade bending moments are measured must be at least equal to the number of modes under consideration so that the number of equations is at least equal to the number of unknowns.

The generalized coordinates are found by inverting the modal moment matrix and multiplying it by the measured bending moment matrix.

$$(q_{NM}) = (BM_{NS}) \cdot (MM_{NS}, NM)^{-1}$$

For the case where the number of stations are greater than the number of modes (NS > NM) so that number of equations are greater than number of unknowns, a linear least square fit is performed to compute the generalized coordinates and an error analysis of the result is included.

The blade root shears and moment of harmonic (A) are then simply computed as follows:

NM

NM

Sea Library

(4) Root Moment
$$\sum$$
 Model Root Moment $x \neq 0$ Mode j $j=1$ Mode j HAR A

The computation procedure (equation 1 thru 4) is repeated for each harmonic (cosine and sine) thru 5 per rev so that the root shears and moments applicable to 3 and 4 bladed rotors are included.

The fixed system hub loads are computed from the root shears and moments by trignometrically adding the appropriate contributions based on the number of blades per rotor(N) and also by the root end geometry (Flap hinge E_{β} , lag hinge E_{ζ} and pitch axis offset E_{O}).

The flapping degree of freedom is the source of 3 hub loads components: F_z , M_X , M_y . The hub loads equations for these components are shown below for 4 bladed rotors.

4 Blades

5a
$$F_{20} = 4 f_{20}$$

$$c F_{z4s} = 4f_{z4s}$$

6a
$$M_{XO} = 2[f_{zlc} E_O + f_{zls} E_\beta + M_{\beta ls}]$$

$$b_{x4c} = 2[E_0 (f_{z3c} + f_{z5c}) - E_\beta (f_{z3s} - f_{z5s}) - M_{\beta3s} + M_{\beta5s}]$$

e
$$M_{x4s} = 2[E_0(f_{z3s}+f_{z5s}) - E_3(-f_{z3c} + f_{z5c}) + M_{\beta3c} - M_{\beta5c}]$$

7a
$$M_{yo} = 2[f_{zls} E_o - f_{zlc} E_\beta - M_{\betalc}]$$

b
$$M_{y4c} = 2(E_0(-f_{z3s} + f_{z5s}) - E_{\beta} (f_{z3c} + f_{z5c}) - M_{\beta3c} - M_{\beta5c})$$

$$c = M_{y4s} = 2[E_0(f_{z3c}-f_{z5c}) - E_\beta(f_{z3s} + f_{z5s}) - M_{\beta3s} - M_{\beta5s}]$$

8 per rev hub loads can be calculated with the above equations by replacing the 3, 4 and 5 harmonic subscripts with 7, 8 and 9 harmonic subscripts, respectively.

APPENDIX E - TABULATION OF GENERALIZED COORDINATE HUB LOADS DATA

The generalized coordinate method discussed in Appendix D was used to compute the vibratory hub loads from the reverse velocity rotor wind tunnel test - Phase IIB. Table E-1 presents a summary of the generalized coordinate 4/rev fixed system hub loads.

1

TABLE E-1 GENERALIZED COORDINATE 4/REV HUB LOAD DATA

(PROGRAM C-63)

RUN NO.	CORR NO.	ADVANCE RATIO µ	RPM	SHAFT ANGLE a _s DEG	2P COSINE CYCLIC ⁰ 2c DEG	HUB VIBRATORY VERTICAL FORCE F _{Z4} LB	HUB VIBRATORY MOMENT M _{*Y4} IN LB
84	913 915 917	0.7	1440	5	0 2 4	82 10 100	220 450 510
85	928 930	0.9	1300	5	0 2	40 30 ·	300 456
86	943 945 947	1.2	1120	5	0 2 4	100 40 110	1400 1230 1430
87	954	1.4	960	5	0 2 4	60 60 200	1300 1700 1860
88	1005	0.3	1670	5	0	7	63
89	1011	0.5	1630	5	0	32	250
90	1020 1021 1022	0.79	1360	5	0 2 4	40 70 70	245 245 385
91	1041 1042	1.4	950	5	0 .1	75 20	1709 1815
92	1043 1044	1.6	880	5	0 2	25 65	840 1040
116	1381	1.4	950	7.5	0	55	1300
118	1400	1.95	725	0	0	70	130
121	1584 1586	2.0	700	5	0	100 100	337 354
123	1627 1628 1629	1.2	1140	7.5	0 2 4	40 40 30	1150 1100 930

APPENDIX F - MODEL BLADE AND MODEL/TEST STAND DYNAMIC CHARACTERISTICS

A summary of the dynamic characteristics of the blade and model/ test stand dynamic characteristics are presented herein. information is presented in Reference 1 and is repeated here with only a brief description of the data. Figure F-1 presents the predicted flapwise frequency spectrum for the RVR model blade. Figure F-2 shows the predicted modal characteristics for the first flapwise mode using a free vibration analysis for both 1/2 and 1atmosphere. The upper part of the figure shows the percent critical damping for the first flexible mode as a function of rotor speed. Note that a 50 percent reduction in air density results in a 50 percent reduction in critical damping. dicted impact of the reduction of damping on flap bending moments is shown in the lower half of Figure F-2. A coefficient, that is a modified generalized coordinate for the first mode 3/rev response, is shown for both 1/2 and 1 atmospheres as a function of rotor speed. For rotor speeds near the 3/rev frequency crossing, the reduction in damping stated above has increased the modal amplification so that the benefits obtained from a 50 percent decrease in airloadings are negated.

Figure F-3 shows the measured model rotor head longitudinal acceleration which was recorded during the model checkout. There is a 2/rev amplification near 1350 RPM (182x10 on the RPM scale) and 3/rev and 4/rev amplifications at lower rotor speeds. These amplification points verify the presence of a longitudinal model/test stand mode and are compared with pretest predictions in Figure F-4.

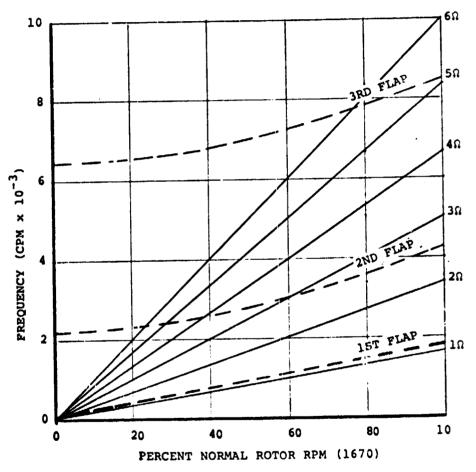


FIGURE F-1 RVR WIND TUNNEL MODEL BLADE PREDICTED FLAPWISE FREQUENCY SPECTRUM

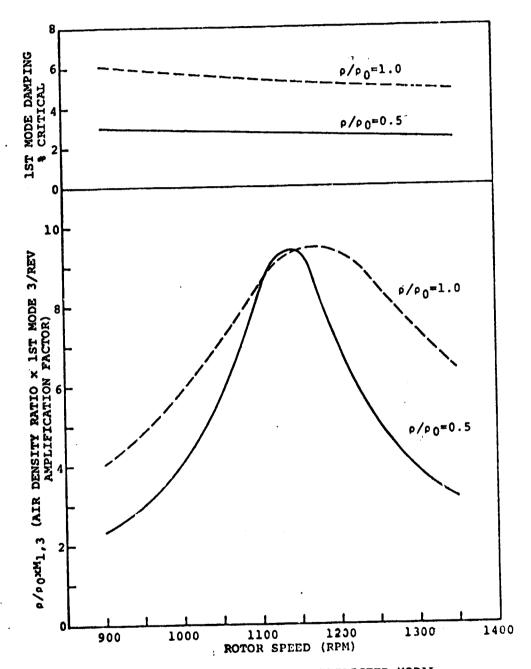
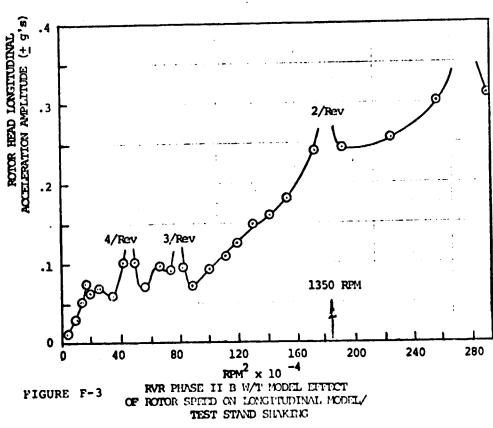


FIGURE F-2 RVR PHASE IIB W/T MODEL PREDICTED MODAL CHARACTERISTICS FOR 1ST FLEXIBLE FLAP MODE AS AFFECTED BY ...IR DENSITY

;



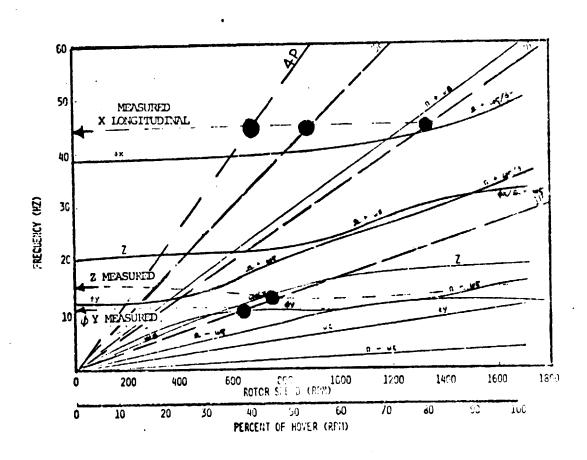


FIGURE F-4 RVR PHASE II B W/T THAT COMPANISON OF PREDICTED AND MEASURED MOUNTAIN STAND NATURAL PREDUCTOR STRAID